

~ New 1927 ~
**American
RADIO
TRANSMITTER**

*Greatest Values
In America*

*Latest Radio
Developments*

*Three Hour Service
On Rush Orders*

Harry Schwartzberg
PRESIDENT



CATALOG
NOV-96

AMERICAN AUTO & RADIO MFG. CO.
KANSAS CITY, MISSOURI

LIST PRICE CATALOG

WHOLESALE ONLY -

The House Back of Every Order

Use this catalogue as your buyers' guide. Every one is buying by mail. It is the quick, convenient and modern way of doing business. Several years ago we forecasted the vision that the radio industry would require large completely stocked wholesale houses conveniently located throughout the country. Today our vision has become an actuality. Our large plant and warehouses has become a buying place for dealers over the United States.

Every person employed by the American Auto and Radio Mfg. Co. from Mr. Schwartzberg to the men in the shipping room is constantly devising new plans that will help our dealers. With a capitalization of \$500,000.00 the American Auto and Radio Mfg. Co. has the facilities to give their dealers a service impossible by the small fly-by-night firm.

Feast your eyes over every page in this large catalogue. Turn the pages slowly, study each item carefully and place your order today! You will have the satisfaction of dealing with a corporation that has been built upon the service it renders—a corporation having a guarantee that backs every order received.

A Personal Message



From
Our President
Harry
Schwartzberg

September 2, 1926.

My Dear Dealer-Friends:
The present season holds in store for the energetic dealers, a volume of business never before attained.

Every man, woman and child are becoming interested in radio—manufacturers, wholesalers and publishers have appropriated enormous sums to spend this year—new popular sets and circuits are out—and the radio business is becoming more stable. With all these facts I am positive that radio this fall will be the leader of industries and most attractive business in the country.

I have anticipated this record-breaking flow of business and have bought heavy to insure my dealers of the prompt filling of all orders.

You will act wisely if you place your order early and thus reap the benefits of publicity and advertising now being placed. Our company is here to help and co-operate with you. Nothing will be left undone to assist our dealers to larger sales and profits. Our plans call for a dealer service unequalled by any—a plan that will assure you of the best merchandise possible, at the lowest possible cost and a 3-hour shipping service that will deliver the goods when you want them.

Call on us any time you need advice or consultation—it is a service we give free.

If I personally can help you in any way, just say the word. My success depends upon yours.

Your friend:
HARRY SCHWARTZBERG.

WE
NEVER
CLOSE
TILL
THE
ORDER
GOES

The American Square Deal Policy

MONEY BACK GUARANTEE

We believe that we have the most liberal guarantee ever given by a wholesaler. We state just exactly what we will do—and then we live up to it to the letter. You can depend on the American Auto and Radio Mfg. Co. to give you a clean-cut square deal all the way through, and to live up to the binding guarantee printed below.

WE POSITIVELY GUARANTEE all merchandise you buy from us to be as represented and entirely satisfactory to YOU:

1. We will refund, replace or exchange for other goods (at your discretion) any merchandise you order from us, providing such merchandise is re-shipped to us within **five days** after you receive it, and is in salable condition.
2. We will gladly replace any merchandise proving defective if within the manufacturers' guarantee limits. We will not refund or exchange on any goods kept in your possession over five days. Write us for shipping instructions before returning goods you have had in your possession over five days.

YOUR PROTECTION is in this guarantee. You are assured of receiving new merchandise when you buy from this company. No shelf-worn goods are shipped, because we have no goods of that character.



American Auto & Radio Mfg. Co.

Incorporated for \$500,000.00

by *Harry Schwartzberg*
PRESIDENT

Send No Money—Inspection Allowed

SEND NO MONEY You need not send any money when you order from the American Auto & Radio Mfg. Co. But if you want to save Money Order, C. O. D. and return charges, remit with order. Over remittance promptly refunded.

GOODS SHIPPED SUBJECT TO INSPECTION We want you to be satisfied that the merchandise you receive is what you ordered and what you want. We, therefore, will permit you the privilege of opening express C. O. D. packages for the purpose of examination, if you request this privilege when you send in your order. The postoffice does not allow examination of C. O. D. parcels before acceptance, so if you wish to examine your order before accepting shipment, have it come by express.

CASH WITH ORDER EXAMINATION AND TEST PRIVILEGE

When cash is sent with order or C. O. D. shipment accepted, we will allow you to test the merchandise over a period of five days from the time you receive it. If, before the end of that time, you decide the goods are not what you want, you may return to us, and if they are in salable condition we will refund, credit or exchange, as you desire. This is the most liberal dealer policy of any wholesaler of whom we have any knowledge.

3 Hour Service!

Quick shipments are the life of a radio dealer's success. Realizing this, I have developed a shipping service which I believe is unequalled by any jobber in any line of merchandise in the Middle West! From the time your order reaches my big stock room, until it is turned over to the railroad or U. S. Mail—in the average only three hours has elapsed!

EIGHTEEN RAILROADS TO SERVE YOU

Once in the hands of the carriers, eighteen railroads with 256 trains daily are ready to speed your order to you. Think what that means! It is almost as if my huge stock of the very latest and best radio merchandise was right in your own building.

No longer do you have to sit down, and let the big, profitable orders go to nearby big cities, because you can't afford to carry a wide selection of expensive sets. Any set or piece of merchandise in this big catalogue can be in your hands on short notice, in many states overnight.

Conditions in the radio industry change very rapidly. With such service available at all times, you can keep your shelves cleaned up and your capital turning over rapidly. No need to take a chance on slow moving numbers. Simply order as you need them. This entire catalogue is your Radio stock. Use it!

YOU CAN'T BEAT THIS FOR SERVICE

Your order reaches us by 8 o'clock in the morning, for instance. By 9, it has gone through the office to the shipping room. It is quickly filled by experts, familiar with radio, and passed to the shipping department. By 10, it reaches our careful packers. It is weighed, entered in book, and moved out to one of our trucks. By 11, your order is on a station platform, ready for quick shipment to your store.



A Corner of the Offices



Part of the Shipping Room Force



Truck driver loading up for a trip to the station. The last link in the 3-hour-service chain.



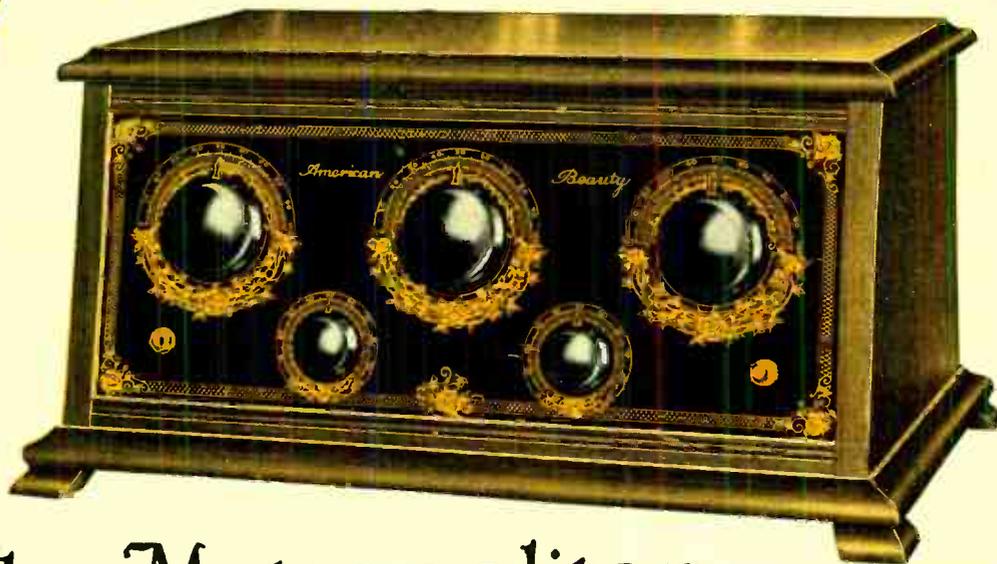
"Your Satisfaction is the Foundation of Our Business"

A Revelation in Radio

1927 Super-Six

American Beauty

6-TUBE ARL RADIO



The Metropolitan
In a Class by Itself ~

THIS marvelous new six-tube radio is the master-model of the American Beauty line. The climax of radio engineering! Never has so much value and satisfaction been combined in a radio at such a little price. Built with the precision of a watch; simplified to the point that a child can operate it; powered to produce a volume and richness of tone heretofore unknown except in the highest priced sets.

THE METROPOLITAN
Retail Price
\$65.00

The Metropolitan employs the newest achievements of our engineers in the ARL tuned radio frequency circuit, with two stages of resistance amplification and one transformer amplification, developing a low, rich and mellow tone free from distortion and with a remarkable volume.

The cabinet is a beautiful lacquered walnut finish, fittingly framing the rich brilliancy of the bakelite front panel and dials which are illuminated in gold. The cabinet conceals both B and C batteries. Has never before been equaled at the price. Retail price **\$65**
H2050

Suggested Complete Outfit

- Metropolitan American Beauty Set. \$65.00
 - Six tubes—X201A or X301A, Radio-tron or Cunningham. 12.00
 - *American Beauty Cone Speaker.... 16.00
 - 190-ampere hour storage battery.... 20.00
 - Two 45-volt Ray-O-Vac "B" batteries 7.50
 - One 4½-volt Ray-O-Vac "C" battery. .60
 - Complete American antenna assembly 3.50
- Total retail price, complete, H2050C, \$124.60
*With Manhattan Jr. Speaker
H2051C \$118.60

Super Six *American Beauty* Super Six

The BARONET~^{WITH} Built-In Speaker



A Radio Triumph!

THE BARONET—of the new 1927 American Beauty Super-Six line speaks right out for itself in beauty of design and its handsome antique walnut finish. A perfect example of the finest of the cabinet makers' art. The six-tube ARL tuned radio frequency circuit means the greatest of satisfaction, with a tone clarity, volume and ability for distance that overwhelms the listener. You cannot buy this radio expecting too much of it in beauty and efficiency.

The Baronet has its own built-in Utah Speaker, which assures the maximum of enjoyment of the wonderful radio programs by every member of the family, or guests. The Utah Speaker is noted for its rich, full tone and exceptional clearness. Cabinet holds B and C batteries.

Ease of control is another of the popular Baronet features—just the lightest touch of the dials will enable one to tune in the program desired, clearing away interference or tuning from one station to another. A marvel of value. Retail **\$79** price, H2052



Suggested Complete Outfit

| | |
|---|---------|
| Baronet American Beauty Set..... | \$79.00 |
| Six tubes—X201A or X301A, Radio-tron or Cunningham..... | 12.00 |
| 100-ampere hour storage battery..... | 20.00 |
| Two 45-volt Ray-O-Vac "B" batteries..... | 7.50 |
| One 4½-volt Ray-O-Vac "C" battery..... | .60 |
| Complete American antenna assembly..... | 3.50 |

Total retail price, H2052C—Complete \$122.60

Six Points of American Beauty Leadership

Tone Quality You enjoy all of the full, natural, rich tone of the original broadcasting, preserving the delicate overtones and bringing out the full depth of the heavier undertones—lending a new enchantment to radio receiving.

Volume The fullest pleasure of radio comes with a volume sufficient to permit the use of a speaker. The American Beauty rings out clear and true in a remarkable volume. Four of the five models therefore have built-in speakers.

Distance Truly "distance lends enchantment" in radio. The American Beauty not only performs on nearby stations, but reaches out far and wide for your entertainment. Remarkable records were made in last year's international tests.

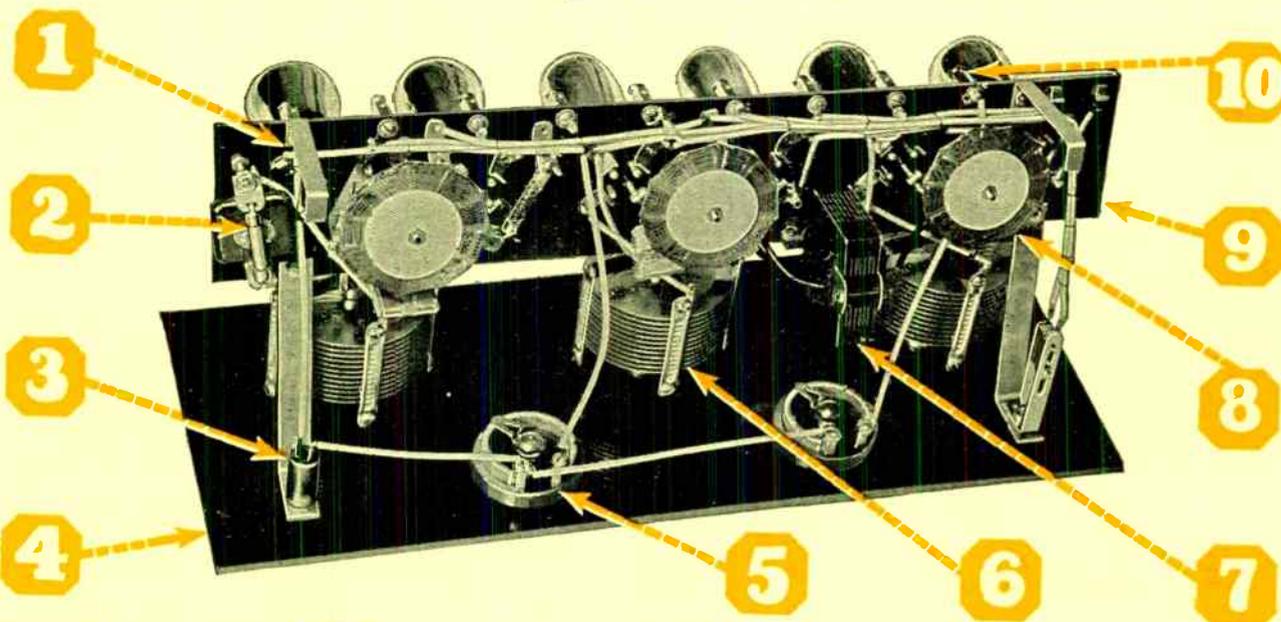
Selectivity Tune in one station at a time with perfect clearness and satisfaction; eliminating the usual worrisome interferences. This is accomplished in the American Beauty by the ARL Circuit with straightline frequency condensers.

Beauty In radio, beauty may be said to be only "cabinet deep"—but nevertheless when we developed the mechanical perfection of the Super-Six, we decided that it must be housed in cabinets of richness and beauty in keeping with the performance.

Ease of Control The operation of the American Beauty ARL Circuit is so simplified that even a child can easily tune in the most distant stations. No adjustments—no connections—just a touch of the control switch and all is ready.

Super Six *American Beauty* Super Six

Get These Inside Facts!



TEN REASONS

*for American Beauty
Tone-Selectivity-Distance-Volume!*

THE famous American Beauty ARL Circuit is the master development of radio engineering, requiring a marvelous precision and the very highest type of equipment parts. Here are the "inside" details of the ARL installation—uniform in all American Beauty receiver models:

1 BENJAMIN CLE-RA-TONE SOCKET—A spring suspension type tube socket that absorbs the microphonic disturbances, that would otherwise be transmitted to the filament and into the reception. A very unusual adaptation of this socket produces marvelous results.

2 MICAMOLD RESISTORS—In which the resistor element is moulded right into bakelite, so strong that the ends may be soldered to. Resistor clips of nickel steel riveted to the sub-panel or socket prong give a perfect contact.

3 PUSH-PULL TYPE SWITCH—With gold-plated front; assures a perfect contact without loss of energy. The plug is removed if desired as a key, preventing use of radio.

4 THE FRONT PANEL—Nothing but genuine bakelite could be used in an American Beauty because of the beautiful high finish and long life; will not chip or warp. Genuine bakelite dials and gold-plated switch and jack; panel beautifully filigreed in veri-chrome gold.

5 POLYMET GENUINE BAKELITE RHEOSTATS—Made of the highest type resistance wire, non-magnetic and non-corrosive; unaffected by changing temperatures. Single hole mounting lends added beauty to panel.

6 PREMIER-CROFOOT CONDENSERS—Low loss, full straight-line frequency, capacity .00035 mfd. Single hole mounting on panel. Extra heavy brass condenser plates, brazed for rigidity and perfect contact; cone spring bearings with screw tension adjustment. The simplest and most powerful condenser made.

7 ALL AMERICAN TRANSFORMERS—Adopted for the ARL Circuit of low ratio (2 to 1) giving added power in amplification. This is the newest type with extra number of laminations and large core. Riveted to sub-panel. Assures perfect reproduction of deep mellow tones.

8 SPIDERWEB TYPE COILS—assuring low internal capacity and the highest degree of tuned radio frequency amplifying. Wound of extra quality No. 26 wire. Mounted four inches apart, below the sub-panel—out of danger in handling.

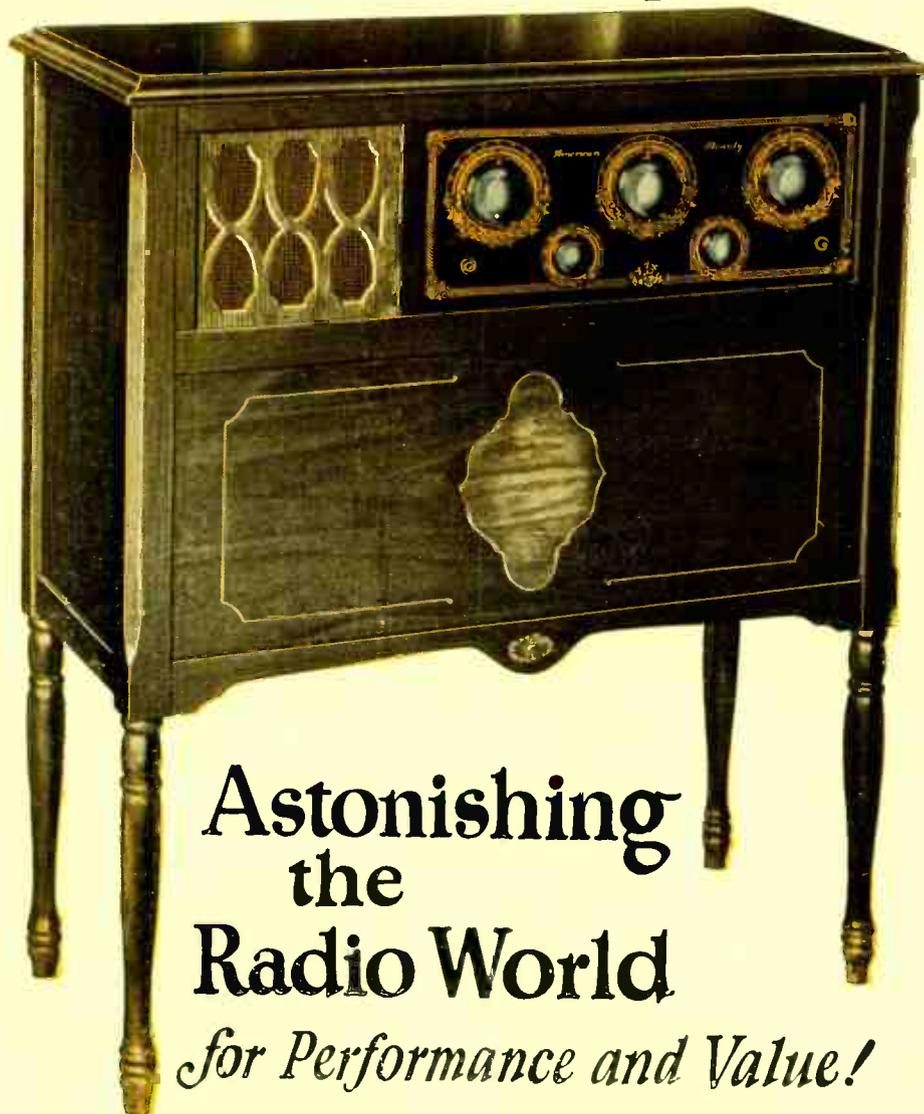
9 THE SUB-PANEL—of genuine bakelite utilizing the newest UX Built-in Tube Sockets with phosphor bronze contacts for the tube prongs, riveted to the bakelite panel. All contacts of sockets, resistor clips, binding posts, are extra strong.

10 LUCAS BINDING POSTS—Of the latest improved spring type, requiring no adjustment whether you use single or multiple strand wire connections. Always hold firmly—no screws to adjust. Tightly fastened to the sub-panel. White engraved marks in the sub-panel identify each post.

Not a detail has been overlooked—not a cent of expense has been spared in making the American Beauty the finest and most efficient radio in the world!

Super Six *American Beauty* Super Six

The **BARCELONA** WITH *Built-In Speaker*



**Astonishing
the
Radio World**
for Performance and Value!

THERE is a rich distinction in the console type of radio cabinet that harmonizes with the fittings of the home, and the Barcelona is indeed a perfect presentation of the type. Our designers have planned the Barcelona with the idea of beauty and utility. It contains its own Utah speaker—rich, resonant and full-toned. Compartments for all batteries. The ARL circuit with six tubes, standard in this model, gives a beauty and perfection of tone with volume and distance that is unsurpassed.

The effectiveness and the harmony of the carefully achieved anique walnut finish of this model is especially appreciated by the lover of the beautiful. And beautiful—the Barcelona is indeed. A radio that will grace any home or surroundings.

The classic Barcelona combines this rare beauty with a price that has never before been heard of. Just think of it—delivered to the home of the user at the retail price of an ordinary portable model; **\$90**
H2053.....



THE exclusive features of American Beauty Super-Six radios are so many that it is indeed difficult to describe them. Beauty of cabinet was an important consideration in presenting our

1927 line, but we well realized that "beauty is as beauty does," and therefore our instruction to our engineers and designers was, "first build a radio such as you have never before known, then house it in a sublime cabinet!"

It's a Six-Tube Season

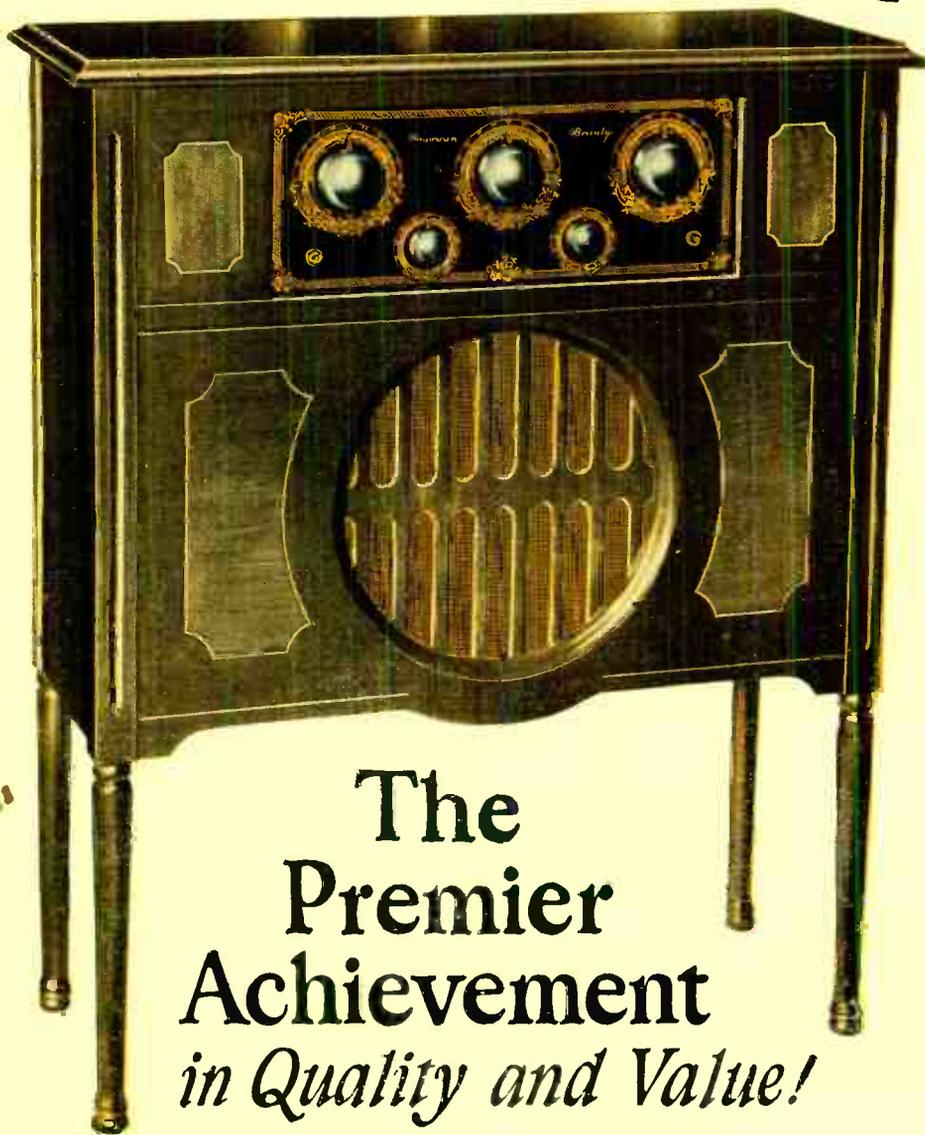
The tendency of radio experts and engineers everywhere has been to the perfection of the six-tube radio, for it has been realized that this is the ultimate in a popular priced line. Our own engineers concurring in this pioneering movement are away ahead of the radio world in its development—as you will see in this new six-tube ARL circuit presentation. You'll enjoy radio at its best when you own an American Beauty.

Suggested Complete Outfit

| | |
|--|-----------------|
| Barcelona American Beauty set..... | \$90.00 |
| Six tubes, X201A or X301A, Radiotron or Cunningham | 12.00 |
| 100-ampere hour storage battery..... | 20.00 |
| Two 45-volt Ray-O-Vac "B" batteries.... | 7.50 |
| One 4½ volt Ray-O-Vac "C" battery..... | .60 |
| Complete American antenna assembly... | 3.50 |
| Total retail price, complete, H2053C.... | \$133.60 |

Super Six *American Beauty* **Super Six**

The **CONCERT GRAND**
WITH *Built-In Cone Speaker*



The Premier Achievement in Quality and Value!

THE greatest thrill you will have ever experienced in radio will come the first time you switch on the princely beautiful Concert Grand American Beauty Console. Pick up station after station, turning from one to another at will, with an almost uncanny degree of selectivity. Listen to them—near or far—in full concert volume through the built-in American Cone speaker, an exclusive American Beauty feature in this model. A joy to look upon—an inspiration to listen to.

The cabinet of the Concert Grand is distinctly an American Beauty creation. The carefully hand-achieved, time-worn effect of the antique walnut finish lends itself to any period of interior decoration, with harmony and luxuriousness. The Concert Grand has compartments for all batteries.

The illustration above depicts its lines. Note the richly black bakelite panels and dials, the gold fittings and the delicacy of the veri-chrome gold filigree American Beauty rose design. A radio value that stands alone and unequalled. Retail price, H2054 **\$105**

CONCERT GRAND
Retail Price
\$105



ARL
The Latest Radio Sensation

MONTHS and months of research and study by our engineers has resulted in the greatest discovery in the history of radio—the ARL circuit—developed as a laboratory product—now available to the world in the American Beauty Super-Six line of six-tube receivers.

American Beauty Cabinets

Admired for their beauty of line and richness of finish, American Beauty cabinets are built by cabinet makers who know how to enhance beauty and grace with sturdiness and lasting construction. Whichever type you select you are sure of the best cabinet it is possible to build.

Suggested Complete Outfit

| | |
|--|----------|
| Concert Grand American Beauty set. | \$105.00 |
| Six tubes, X201A or X301A. Radiotron or Cunningham | 12.00 |
| 100-ampere hour storage battery | 20.00 |
| Two 45-volt Ray-O-Vac "B" batteries | 7.50 |
| One 4½-volt Ray-O-Vac "C" battery | .60 |
| Complete American antenna assembly | 3.50 |

Total retail price, complete, H2054C, \$148.60

Super Six American Beauty Super Six

The Colonial Highboy

WITH
Built-In Speaker

COLONIAL
HIGHBOY
Retail Price
\$135



The
World's Greatest
VALUE
in a Fine Radio!

UNTIL you have feasted your vision upon the wonderful period design of the Colonial Highboy, exemplifying the graceful elements of the popular console type radio, you simply cannot appreciate the last word in cabinet designing. Place it amid the most luxurious home surroundings and you'll find it diffusing an air of grace to it all. It employs the last word in radio efficiency—the famous American Beauty ARL circuit.

The Colonial Highboy embodies the finest type of built-in Utah speaker, with compartments for all batteries. The bakelite front panel is covered by a drop door that entirely conceals the radio interior when closed. Antique walnut finish. A radio of distinction.

The price? It's not surprising you would expect the Colonial Highboy to be \$300—but it's not! Not even \$250 or even \$200! Its retail price is just about where you would expect the wholesale value to be. Retail price, **\$135**
H2055



The ARL Colonial Highboy

THIS model is the very ultimate in radio designing. The American Beauty exclusive ARL circuit brings in a long repertoire of stations—each clear and distinct and without interference—with a volume that is little short of marvelous. The greatest efficiency the six-tube radio has ever known.

The ARL employs the highest type of full straightline frequency condenser and low ratio transformer, producing the most sensitive selectivity, rare clarity of tone and a volume that will astonish the listener.

Suggested Complete Outfit

| | |
|--|----------|
| Colonial Highboy American Beauty Set..... | \$135.00 |
| Six tubes—X201A or X301A, Radiotron or Cunningham | 12.00 |
| 100-ampere-hour storage battery..... | 20.00 |
| Two 45-volt Ray-O-Vac "B" batteries..... | 7.50 |
| One 4½-volt Ray-O-Vac "C" battery..... | .60 |
| Complete American antenna assembly..... | 3.50 |

Total Retail Price—Complete—H2055C.....\$178.60

Five American Beauty Models

The American Beauty line consists, besides the Colonial Highboy, of four other super de luxe models—one for each distinct need—illustrated and described on the foregoing pages. Each employs the famous American Beauty six-tube ARL circuit.

KODEL

"The Best that Radio Offers"

The Kodel Radio Corporation offers to the radio buying public a complete line of Radio merchandise. The products they offer are not experiments but the result of 14 years of experience. Not one item in the entire line is an experiment and it can be truly said that Kodel does offer the best in radio.

Kodel "Standard Five" Receiver

The extreme selectiveness, long range and great volume together with its wonderful tone qualities makes this set important as the final development of the sensational receiver of last season. The people who believed that perfect radio performance was to be found only in the very highest priced receivers were surprised at the unequalled performance obtained from five tubes by the use of a time-tested radio frequency circuit manufactured by us with license issued to us by the United States Navy Department, who own the basic patent.

Only the very best low loss and perfectly matched parts are employed in the construction of the Kodel "Standard Five."

There is no set on the market which is easier to operate, as any station can be tuned in by setting the dials to the numbers shown on the log chart accompanying each set.



The patented Kodel Unitrol feature allows all three dials to be moved together by turning the control only. It is only after the station has been brought in that the vernier adjustments need be used to bring out the maximum strength and clarity.

The "Standard Five" works equally well on inside or outside antenna, using dry cells, storage batteries or any good battery eliminator. Space is provided for dry cells in the cabinet.

The cabinet is finished in dark brown mahogany with sloping front panel, beautifully engraved in gold. Regardless of price there is no receiver on the market where the wiring, which is concealed beneath a sub-panel with only the highly polished brass sockets and plate condensers visible and every detail so carefully planned as in the Kodel "Standard Five."

This receiver defies all competition and is radio's biggest value.

| COMPLETE | | |
|---------------------------------|--------------------------------------|----------|
| 1 | Kodel Standard Five Receiver..... | \$85.00 |
| 2 | DL-5 DeForest tubes | 10.00 |
| 2 | 2303 Ray-O-Vac "B" batteries..... | 7.50 |
| 1 | 100 Ampere hour storage battery..... | 20.00 |
| 1 | 231R "C" battery..... | .60 |
| 1 | New Kodel Cone Speaker..... | 20.00 |
| 1 | Aerial assembly | 3.50 |
| List Price Complete—H2573C..... | | \$146.60 |

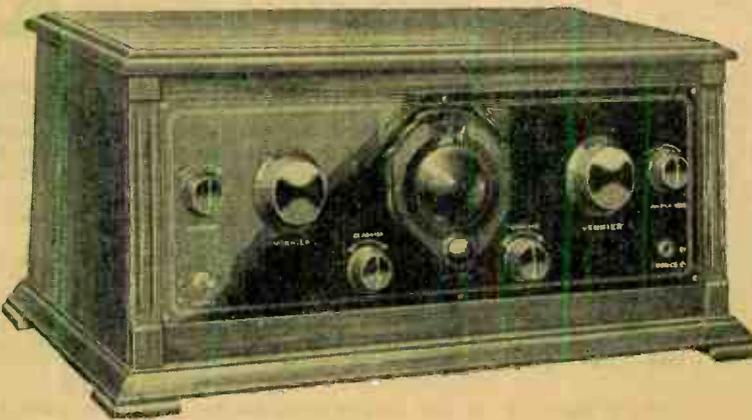
H2573— **\$85.00**
List.....

Kodel Big Six—A Sensation

No expense was spared in making the Kodel "Big Six" the most popular radio receiver on the market. When performance, construction and appearance are present and the famous U. S. Navy circuit of self-balanced tuned radio frequency used we can positively insure the buyer the best of radio receiving performance.

Although extremely selective, no set on the market today is easier to tune. With every set a log chart shows the position of stations and it is only a few seconds until any station within range may be tuned in.

The "Big Six" performs second to none and the appearance is in keeping with the finest of homes. With its gentle sloping front panel engraved in gold and large bakelite dials are finished in the same attractive way, and enclosed in a massive dark brown mahogany cabinet making



the set an object of beauty and a pride of the owner.

Compared with other sets with their numerous wires and parts, the "Big Six" becomes a revelation. Only the three low loss plate condensers and the tops of the bakelite sockets are visible, all the other parts, together with the wiring, is concealed under a beautiful gold engraved Formica sub-panel.

Your preference of inside or outside antenna, using dry cells, storage batteries or a good battery eliminator may be used. If you prefer dry cells, space has been reserved for this purpose. The wonderful set received sharp and clear over the entire broadcasting wave board of 200-600 meters.

The Kodel "Big Six" the last word in radio construction and performance, lists at the amazingly low price of **\$115.00**
H2574.....

| COMPLETE | | |
|---------------------------------|--------------------------------------|----------|
| 1 | Kodel Big Six Receiver..... | \$115.00 |
| 6 | DL-5 DeForest tubes | 12.00 |
| 2 | 2303 Ray-O-Vac "B" batteries..... | 7.50 |
| 1 | 231R Ray-O-Vac "C" battery..... | .60 |
| 1 | 100 Ampere hour storage battery..... | 20.00 |
| 1 | New Kodel Cone Speaker..... | 20.00 |
| 1 | Antenna assembly | 3.50 |
| List Price Complete—H2574C..... | | \$178.60 |

Now You Can Get the Newest With a Tone More Beautiful Than Ever



In beauty and realism of tone—in uniform volume on all waves—and in “needlepoint” selectivity in congested areas, the new ELKAY represents the very utmost in radio totally regardless of price.

Embodying the new Donle Tru-phonic System of Audio Amplification, plus Automatic Synchronized R. F. giving it a pure tone and a very high amplification from 200 to 580 meters.

Any type of tubes may be used because it has the ELKAY Tube Equalizer System of interchangeable, automatic rheostats.

Both the R. F. stages and the detector are entirely shielded. Using a new uni-control with the flexibility of three dials, there are no sub-verniers to bother with or get out of order and the set is very easy to tune.

All the connections lead through a common cable and plainly tabbed, making the set easy for the amateur to connect up.



This wonderful masterpiece is truly the utmost in radio—nothing has been spared to make the Elkay—the best six-tube receiver on the market.

Built into a beautiful cabinet finished in Antique finished mahogany and with a gentle sloping front panel, this masterpiece fits into the sur-

rounding of any home or room furnishing.

Considering the ease of operation, the new principles used, volume and tone, beautiful case and the exceptionally high grade of workmanship—the ELKAY has a right to the greatest praise.

Distance getting comes easy on the new 6-tube Elkay and stations show an unusual amount of volume.

Stations are spread evenly over the complete field and exacting selectivity is possible on the one dial. One station after another comes in with volume over the entire range and because of the ease of operation, any person may quickly find the station desired.

Sold with a guarantee of perfect satisfaction. Backed fully by the manufacturers and by the American Radio Mfg. Co.

Buy the new Elkay and you will have the latest achievement in the radio field. H2489—**\$125**
List

| SUGGESTED COMBINATION—H2489C | |
|--------------------------------------|-----------------|
| 1-Elkay six tube receiver..... | \$125.00 |
| 6-DL-5 DeForest tubes..... | 12.00 |
| 1-100 ampere storage battery..... | 20.00 |
| 2-45 volt upright "B" batteries..... | 7.50 |
| 1-Thorola cone speaker..... | 20.00 |
| 1-American antenna assembly..... | 3.50 |
| Complete H2489C | \$188.00 |

GENUINE WILLARD BATTERIES AND POWER UNITS

These Willard Units are to be included in set combinations as shown in this catalog. Deduct price of B Batteries and add price of B Power Unit; also deduct price of Storage Battery and add price of A Power Units. For Storage B Batteries deduct price of B Batteries and add price of 2 or 3 Storage B Units, depending on voltage desired.

A Batteries

Everyone knows the high standard of the world-famous Willard Batteries. The batteries shown here are designed and built exclusively for radio use. They will give reliable service over an unusually long period.

- No. FWR-3—11-plate, 6-volt. No. H1391—List.....\$16.50
- No. FWR-11—13-plate, 6-volt. No. H1392—List.....\$18.25
- No. FWR-15—15-plate, 6-volt. No. H1393—List.....\$20.50

WET CELL B BATTERIES
Buy a Willard Wet Cell B Battery and eliminate the troublesome and expensive process of continually buying B batteries. This battery will last for years. Easy to recharge and keep at proper voltage. Steady B power makes better reception.

- No. CBR-127—48-volt B Battery, capacity 6,000 milliamperere hours at 25 milliamperere rate. No. H1394—List....\$16.50

A Power Units

The Willard "A" Power Units contain a 40 amp. hour battery and a bulb type rectifier. The charger is designed to deliver either two amperes for a quick charge or one-half ampere for a trickle charge.

The only connections necessary are the two leads to the receiving set and the plug for the 110-volt house lighting line.

This Unit solves the discharged battery problem with its attendant annoyance and inconvenience. Battery charging can be forgotten, as the battery is put on charge by throwing the switch which cuts out the set.

There are also terminals and a switching arrangement for charging storage "B" batteries.

Both units are the same size, 9 3/4 inches long, 9 1/4 inches wide and 9 3/4 inches high.

The rectifier bulb used is a 2 amp. Rectigon. The 3 amp. fuse in the "B" circuit and the 10 amp. fuse in the "A" circuit are standard 1 1/4 inch enclosed or cartridge type fuses which can be procured at any electrical accessories store if replacement is necessary.

- 6-volt "A" Power Unit—60-cycle—No. H1395—List.....\$47.50
- 4-volt "A" Power Unit—60-cycle—No. H1396—List.....46.50

B POWER UNIT

The Willard "B" Power Unit is designed for service in place of the "B" battery on any radio receiving set where 110-volt, 60-cycle A. C. lighting line is available. It is very simple to install and operate.

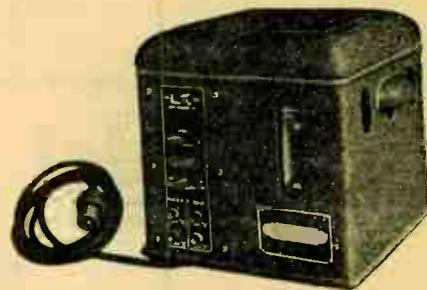
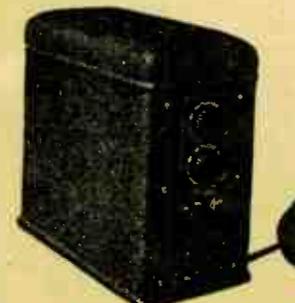
The rectifier is of the chemical type which is superior to the bulb type for "B" power. It consists of four units connected in such a way that full wave rectification is secured.

The chemical solution in the rectifier should last approximately one year, with normal service, when it should be renewed.

There are variable voltage taps for the detector and amplifier which allow very close regulation and insure maximum results from the receiving set.

Instructions for operation come with each unit. The unit is 9 3/4 inches long, 4 7/8 inches wide, 9 3/4 inches high.

- "B" Power Unit, complete—No. H1397—List.....\$45.00



WILLARD BATTERIES RECOMMENDED FOR EVERY COMBINATION.



MUSIC MASTER Model No. 140

A truly unique five-tube set—One dial, electrically illuminated and calibrated in meter wave lengths. Its appearance and remarkable ease of operation are unparalleled. A compact, sturdy and handsome radio receiver.

Two 45-volt large "B" batteries may be concealed in the lower compartment of the cabinet.

This model was very popular last season. No. 140—
Music Master. **\$140**
H2493—List

| SUGGESTED COMBINATION | |
|--|-----------------|
| 1 Music Master No. 140..... | \$140.00 |
| 5 UX201A Radiotron tubes..... | 10.00 |
| 1 Amer. No. 58, 100 amp Stor. battery | 20.00 |
| 2 No. 2303 Ray-O-Vac 45 volt "B" battery | 7.50 |
| 1 No. 231R Ray-O-Vac 4½ volt "C" battery | .60 |
| 1 Gold Seal Homecharger..... | 19.50 |
| 1 Music Master VI loud speak.... | 30.00 |
| 1 American antenna assembly.. | 3.50 |
| H2493C—Complete—List | \$231.10 |

Music RADIO Master RECEIVERS



Model No. 60

There is unusual value in this Type 60 Music Master. A modestly priced radio set with clarity and range unsurpassed in receivers of this class.

Three selectors mounted on the appropriately engraved sloping bakelite panel, give very sharp tuning.

Handsome cabinet 22¾ inches wide, 11¼ inches deep and 7 inches high. A big, sturdy receiver that proved another very popular item last season and should be even more popular this season. A five-tube Tuned Radio Frequency Set that is a real bargain at the low list of

| SUGGESTED COMBINATION | |
|---|-----------------|
| 1 Music Master Type 60 Rec..... | \$60.00 |
| 5 Radiotron UX201A tubes..... | 10.00 |
| 1 American No. 58 stor. battery 100 amp. | 20.00 |
| 2 45-volt "B" batteries..... | 7.50 |
| 1 Valley battery charger..... | 19.50 |
| 1 American Velvet-tone speaker. 16.00 | |
| 1 American antenna assembly... 3.50 | |
| H2491C—Complete—List | \$136.50 |

\$60.00

Stock No. H2491



MUSIC MASTER-WARE NEUTRODYNE

Uses Dry Cell Batteries

Dry cell batteries are self-contained in sloping panel cabinet of genuine mahogany. Wonderful reproduction.

A long distance 4-tube receiver that is very selective and gives uniform amplification on all wave bands.

Extra great volume is obtained due to special improvements embodied in the circuit.

Stock No. H2490—
List

\$50.00

| SUGGESTED COMBINATION | |
|--|----------------|
| 1 Music Master-Ware 4-tube Neutrodyne Receiver | \$50.00 |
| 3 Dry cell batteries..... | 1.50 |
| 4 No. 4151, 22½-volt "B" bats.. | 6.00 |
| 1 No. 531R, 4½-volt "C" bat.... | .40 |
| 4 UV199 RCA tubes..... | 9.00 |
| 1 American antenna assembly... | 3.50 |
| 1 Manhattan Jr. loud speaker... 10.00 | |
| H2490C—Complete—List | \$80.40 |



Model 50

Spanish Treasure Chest

The new principle incorporated in not only this but other Thorola Model Sets is known as isolated power—hence the name ISLODYNE. It is a five tube Tuned Radio Frequency Circuit on which great improvements have been made. With a Thorola set using the new principle uniform amplification over both low and high wave lengths and greater selectivity is obtained on the crowded wave bands.

The cabinet is covered with Thorocco, metal bound, giving style and individuality, new to radio cabinet construction—all giving the appearance of a Spanish Treasure chest. H2535—
\$85.00
List Price

| SUGGESTED COMBINATION | |
|---------------------------------------|-----------------|
| 1 Thorola Isloodyne No. 50..... | \$85.00 |
| 5 DL5 DeForest tubes..... | 10.00 |
| 1 American No. 59, 100 amp. battery.. | 18.00 |
| 2 2301 45-volt "B" batteries..... | 7.50 |
| 1 Thorola Jr. speaker..... | 15.00 |
| 1 American aerial assembly..... | 3.50 |
| H2535C—Complete..... | \$139.00 |

Thorola

ISLODYNE No. 55



Circassian Walnut Cabinet

THOROLA NO. 51
Appreciating the demand for a Thorola 5-tube model, the manufacturers brought out the new Model 51. This is encased in a genuine brown mahogany cabinet and is a thing of real beauty. It has the famous Thorola circuit as is used in all the other models, and will be sure to be one of the biggest sellers in the line. **\$85.00**
H2537—List

| SUGGESTED COMBINATION M2537C | |
|--|-----------------|
| 1 Thorola Isloodyne Model 51 receiver..... | \$85.00 |
| 5 DL5 DeForest tubes..... | 10.00 |
| 1 Amer. No. 59, 100-amp battery.... | 18.00 |
| 2 2301 45-volt "B" batteries..... | 7.50 |
| 1 Gold Seal homcharger..... | 19.50 |
| 1 Thorola Jr. loud speaker..... | 15.00 |
| 1 American antenna assembly..... | 3.50 |
| H2537C—Complete..... | \$158.50 |

Beautifully housed in a well made Circassian walnut cabinet, the Thorola Model 55 is as satisfying artistically as technically. It offers a 5-tube tuned radio frequency receiver of improved design and sensational performance. Ultra low-loss doughnut coils, straight line frequency condensers and other circuit improvements combine to make this receiver a triumph in advanced radio engineering. H2536—
\$100
List

| SUGGESTED COMBINATION H2536C | |
|--|-----------------|
| 1 Thorola Isloodyne Model 55 receiver..... | \$100.00 |
| 5 DL5 DeForest tubes..... | 10.00 |
| 1 American No. 58, 100-amp. battery.. | 20.00 |
| 2 2301 45-volt "B" batteries..... | 7.50 |
| 1 Gold Seal homecharger..... | 19.50 |
| 1 Thorola Model 4 speaker..... | 25.00 |
| 1 American antenna assembly..... | 3.50 |
| H2536C—Complete..... | \$185.50 |



BROWN MAHOGANY CABINET

TAKE ADVANTAGE OF OUR TREMENDOUS BUYING POWER AND SAVE MONEY

ERLA CONSOLE MODELS

The De Luxe CONSOLE MODEL



HE words, "beautiful, marvelous, striking and handsome," have been so overworked that it is unfortunate that they are the only words which truly describe this latest Erla product—the DeLuxe Console Model.

The cabinet is the handsomest and most striking of any of the numerous cabinets which have come under our observation. The performance is nothing short of marvelous and the harmony of performance and appearance is best described by the word "beautiful." The picture tells the story of its quality.

FRENCH HUGUENOT FINISH

The cabinet is of quartered and matched figured walnut, finished in the French Huguenot fashion. The result is so distinctive and unusual that it elicits fervent praise from the most sophisticated radio buyer.

The design is graceful, and of a sort that will allow the console to harmonize with any furnishings. The speaker is built in. An attractive grille, backed by gold cloth, covers the mouth of the speaker opening. **\$142.50**
H2564—List

Here are the specifications of this set.

The circuit used is tuned radio frequency, incorporating the Erla Balloon circloid principle. Five tubes are used, two stages of radio frequency, detector, and two stages of audio. Cabinet is 39½ inches high, 21 inches wide and 16½ inches deep.

The panel is slanting front, with markings etched bronze on an antique finish background, making a very handsome effect. All parts used are of Erla manufacture. The receiver operates on either indoor or outdoor antenna. List \$142.50.



A word about the position of Erla in the radio field would not be out of place here. The Electrical Research Laboratories have been known for years as masters of the radio craft. Any product bearing the name "ERLA" is at once stamped as a high quality article. Erla was a pioneer in radio, and has maintained a front rank place ever since.

The STANDARD Console Model

This console is identical with the DeLuxe console except that the finish is of dark, rich two-tone mahogany, instead of the figured walnut. Many buyers prefer this type of cabinet, for, although it is not as striking as the walnut cabinet, it gives an impression of elegance that no cabinet could excel.

MASTER CRAFTSMEN BUILD IT

Only the finest artisans are employed in the building of this receiver. The result reflects the care taken in manufacture. It is as distinguished a piece of furniture as can well be imagined. It appeals instantly to the careful buyer.

The Erla Balloon Circloid principle of amplification is used here to great advantage. The Circloid coils are especially useful in towns and cities which are close enough to broadcasting stations to encounter trouble from interference from those stations. Such interference is often due to the "picking up" of signals by the receiving inductances—in other words the coils used operate as an antenna. This effect is absolutely eliminated by the Balloon Circloids. Dielectric losses have been reduced to the minimum in these coils. The other parts in this receiver are also of Erla manufacture. H2562. List **\$113.50**

ERLA DeLuxe Model



Here is a set which—we freely predict—will be one of the best sellers of the 1926-27 season. It has all the ear-marks of a winner. Our buyers analyzed point after point of this five-tube receiver, just as experts go over a fine race horse—and in every particular it was found to be topnotch.

This set is the same in operation as the De Luxe Console model at the top of this page. The "works" of the receiver are the same, and the cabinet also is constructed of the distinctive quartered and matched walnut, in the unusual French Huguenot finish.

In every way this set will satisfy. The Balloon Circloid principle is employed—genuine Erla parts are used throughout, and it is as selective, as long range, as sweet and mellow in reproduction, as true in tone as any five-tube receiver you can mention. H2587, List **\$77.50**

ERLA Standard Model



This receiver is identical with the one above, except that the cabinet is in a beautiful two-tone mahogany finish, with ornamental carved side panels and top. It gives coast to coast range in winter and will give 1,000 to 1,500 miles in summer.

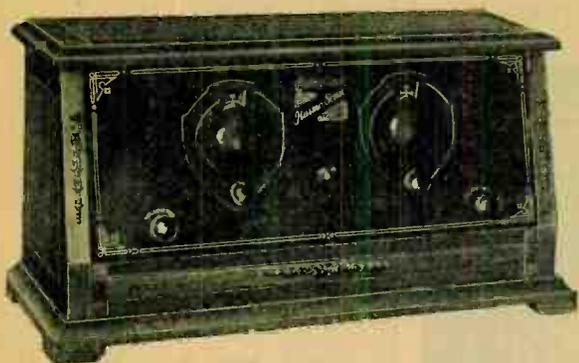
Nearly 2,000,000 receiving sets now in use have Erla parts in their construction. This is indeed a strong testimonial to the strong grasp Erla has upon the popular fancy. At the figure quoted, this Erla receiver is one of the finest values on the radio market today. H2588—List **\$69.50**

READ EVERYTHING ABOUT AMERICAN BEAUTY SETS—THEY ARE WONDERFUL

AMPLEX HARMO-SONIC RECEIVERS

A Revelation in Low Priced Receivers

These receivers are engineered and manufactured by a laboratory whose instruments have for years been used and specified by the leading engineers and publications of the country. They are setting a new standard in the radio world by having six tubes, two dial control and resistance coupled amplification at sensational prices. The outstanding low priced set of the year. All sets take the UX power tube in the last stage and have automatic filament control.



AMPLEX HARMO-SONIC NO. 49 SENSATIONALLY LOW IN PRICE

No. 49 is the last word in radio perfection. Built with the same construction as the Number 39, but is housed in a checked two-tone sloping front cabinet and equipped with Kurz-Kosch verneir dials.

A perfect 6 tube receiver at a low price. A sturdy fool-proof set that decreases trouble and cuts out the usual disagreeable service casts. No. 49 H2442 **\$49.50**

| SUGGESTED COMBINATION H2442C | |
|--|----------|
| 1 Amplex Harmo-Sonic Receiver, No. 49 | \$ 49.50 |
| 6 DL-5 DeForest Tubes | 12.00 |
| 1 American 100 Ampere Storage Battery | 20.00 |
| 2 45-volt 2303 Ray-O-Vac "B" Batteries | 7.50 |
| 1 American Beauty Cone Speaker | 16.00 |
| 1 American Antenna Assembly | 3.50 |
| Complete—H2442C—List | \$108.50 |

Amplex Harmo-Sonic Receiver 39

Model 39 is truly the sensation of the season!

This is the only two dial, six tube set on the market, employing resistance coupled amplification and housed in a sloping front cabinet, listing at the extremely low price of \$39.50.



A REVELATION IN SOUND REPRODUCTION

Resistance coupled amplification that brings in the deep notes of the bass violin with the same clarity as the soprano high "C". The nearest approach to faithful reproduction, yet achieved in radio. And selectivity of the kind that cuts right through the local stations and gets those hard-to-find distant ones.

FORTY STATIONS IN ONE NIGHT IS NOT UNUSUAL.

Two dial tuning control is the most simple known. Two exclusive amplex features. The Volumeter and Selecto-Switch; the former cuts out squeals and howls by slight turn of the knob, while the Selecto-Switch with its 3 points allows the use of short or long antennas and increases selectivity in congested districts.

Built with a combination of riveting, strips and flexible wire with a minimum of moving parts. Practically all instruments under sub-panel.

Model No. 39 is housed in a plain sloped front cabinet and is equipped with bakelite knobs and dials and beautifully gold decorated gold panel.

| SUGGESTED COMBINATION H2441C | |
|---------------------------------------|---------|
| 1 Amplex Harmo-Sonic Receiver, No. 39 | \$39.50 |
| 6 D.L. 5 DeForest Tubes | 12.00 |
| 1 100 Ampere Storage Battery | 20.00 |
| 2 45 Volt 2303 Ray-O-Vac B Batteries | 7.50 |
| 1 American Beauty Cone Speaker | 16.00 |
| 1 American Antenna Assembly | 3.50 |
| Complete—H2441C—List | \$98.50 |

No. H2441

LIST

\$39.50



THE AMPLEX SUPER No. 49-A

One of the latest additions to the popular Harmo-Sonic family. A model that includes the Number 49 with a beautiful battery table. This allows you to conceal all batteries and makes the receiver more attractive.

The battery table is beautifully finished so as to match the receiver and makes a console model that will lend enchantment to any home surroundings.

The Amplex Super No. 49A consisting of receiver and battery table. H2443—List \$69.50

LIST
\$69.50

| SUGGESTED COMBINATION H2443C | |
|---------------------------------------|----------|
| 1 Amplex Super 49A Receiver | \$ 69.50 |
| 6 DL-5 DeForest Tubes | 12.00 |
| 1 American 100 Amp. Storage Battery | 20.00 |
| 2 45 Volt, 2303 Ray-O-Vac B Batteries | 7.50 |
| 1 American Beauty Cone Speaker | 16.00 |
| 1 Antenna Assembly | 3.50 |
| Complete—H2443C—List | \$128.50 |

Amplex DeLuxe

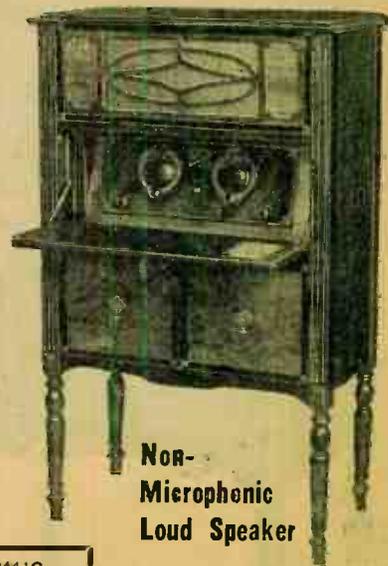
The ultra paramount of the complete line! Employs the Highboy type of console. Constructed of genuine five-ply walnut and finished so that the most exacting fan will be pleased.

Non-Microphonic Loud Speaker

The Amplex DeLuxe comes equipped with the patented non-microphonic loud speaker. Eliminates all the disagreeable features of ordinary loud speakers.

Get these main points, 6-tube, two-dial control, resistance coupled amplification, at the lowest prices known on the market. Designed and constructed solidly to eliminate servicing troubles. Quality, reproduction, ease in handling, Selecto-Switch and Volumeter, appearance and salability.

H2444—List \$129.50



Non-Microphonic
Loud Speaker

| SUGGESTED COMBINATION H2444C | |
|------------------------------------|----------|
| 1 Amplex DeLuxe Receiver | \$129.50 |
| 6 DL-5 DeForest Tubes | 12.00 |
| 1 American 100 Ampere Storage Bat. | 20.00 |
| 2 45 Volt 2303 Ray-O-Vac B Bat. | 7.50 |
| 1 American Antenna Assembly | 3.50 |
| Complete—H2444C—List | \$172.50 |

LIST
\$129.50

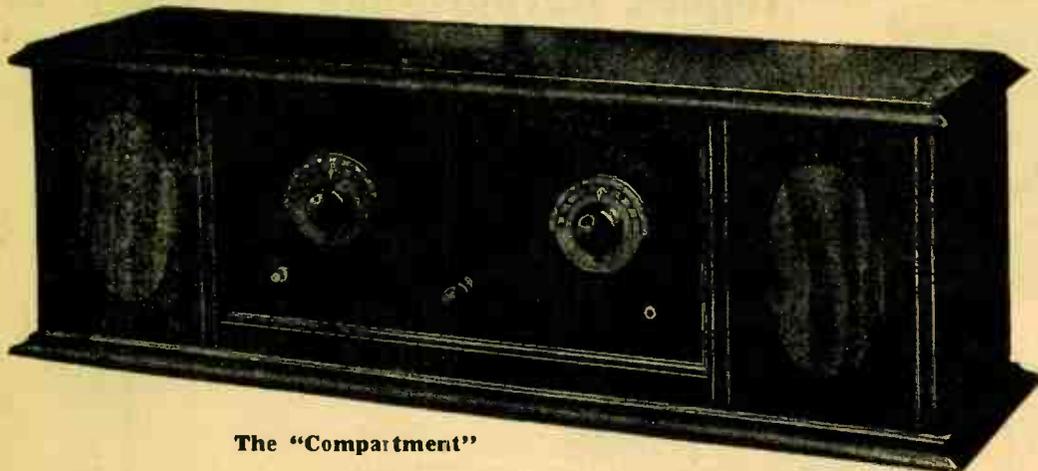


ALL-AMERICAN

The All-American radio receiving sets are very well known. They are dependable and give exceptional results. The mechanical and electrical construction is of the finest, embodying

3 NEW MODELS of a Famous 5 TUBE RECEIVER

all the latest improvements. The two-dial control makes tuning unusually easy. Combined with their remarkable selectivity and pleasant tone, these sets are splendid values. Each model is equipped with the same receiving circuit.



The "Compartment"

The Compartment Model is very neat and attractive in appearance. It is of the table type and is preferred by many. Can be placed on a shelf, ledge, seat or table. The design and appearance are such that it harmonizes, yet is distinctive, in any setting.

Built-in Compartment—Ample space is provided in the chambers at each end of the cabinet for all batteries. There also is sufficient space to house a power unit or eliminator if desired. A removable panel at the back conceals all batteries and wires from view, yet leaves them easily accessible for testing or charging.

Cabinet of good sturdy construction. The design is of the latest. It is beautifully finished in two-tone walnut with artistic inlaid panel designs.

Circuit—Each of the three models on this page use the same tuned radio frequency circuit. It tunes easily and stations once logged can be turned to at any time. Its fine selectivity makes for great distance and the bringing in of many stations. Combines distance with great beauty of tone.

Besides its handsome appearance it gives unusually good and consistent results, the kind to be expected from an All-American set. Size 37½ inches wide, 12½ inches deep, 12 inches high. Compartment Model. No. H2505—List

\$90.00



The "Cabinet"

Cabinet Model—Here the ingeniously designed All-American chassis is presented in a very practical way. The conveniently designed cabinet is made of selected hardwood, finished in blended 3-coat walnut. It has a hinged top which is equipped with a lid support. Uses the same highly efficient 5-tube tuned radio frequency circuit. Interior mechanism the same as in the other models. Cabinet size, 23¼ inches wide, 15 inches deep and 12¼ inches high. There is no difference in this model from the others except the cabinet, which the chassis exactly fits, there being no end compartments for batteries. Cabinet model No. H2865—

\$80.00

List



The "Hi-Boy"

The Hi-Boy Model

This trim "Hi-Boy" design is a very neat and attractive type. It is of Colonial design and measures 24 inches wide, 15 inches deep and 41 inches high—just the right size to fit in with other home furnishings. The woodwork is of select walnut in combination with quarter sawed hardwood artistically finished either in blended 3-coat walnut or attractive Chinese red lacquer. The top front panel drops down to form a convenient arm rest for the operator while tuning. Space is provided for all batteries and eliminators in the lower part of the "Hi-Boy" thus concealing unsightly connecting wires. All the battery units can be easily reached by opening the lower front panel. Antique cast brass pulls are provided forming a pleasing contrast to both the walnut and Chinese red finishes. A model for the most particular. Employs the same high type result giving circuit as the other All-American receivers. The highly efficient circuit dressed up in its best. Hi-Boy Model No. H2866—List

\$115.00

| Suggested Combinations | |
|--|----------|
| 1 Cabinet model receiver..... | \$80.00 |
| 5 DL5 DeForest tubes..... | 10.00 |
| 1 100-ampere storage battery... | 20.00 |
| 2 45-volt 2303 Ray-O-Vac "B" batteries | 7.50 |
| 1 4½-volt 231R Ray-O-Vac "C" battery | .60 |
| 1 All-American Lorel reproducer | 25.00 |
| 1 American antenna assembly.. | 3.50 |
| The "Cabinet" Complete H2865C—List | \$146.60 |

Compartment model, complete with above accessories. No. H2505C—List

\$156.60

Hi-Boy model complete with above accessories. No. H2866C—List

\$181.60

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

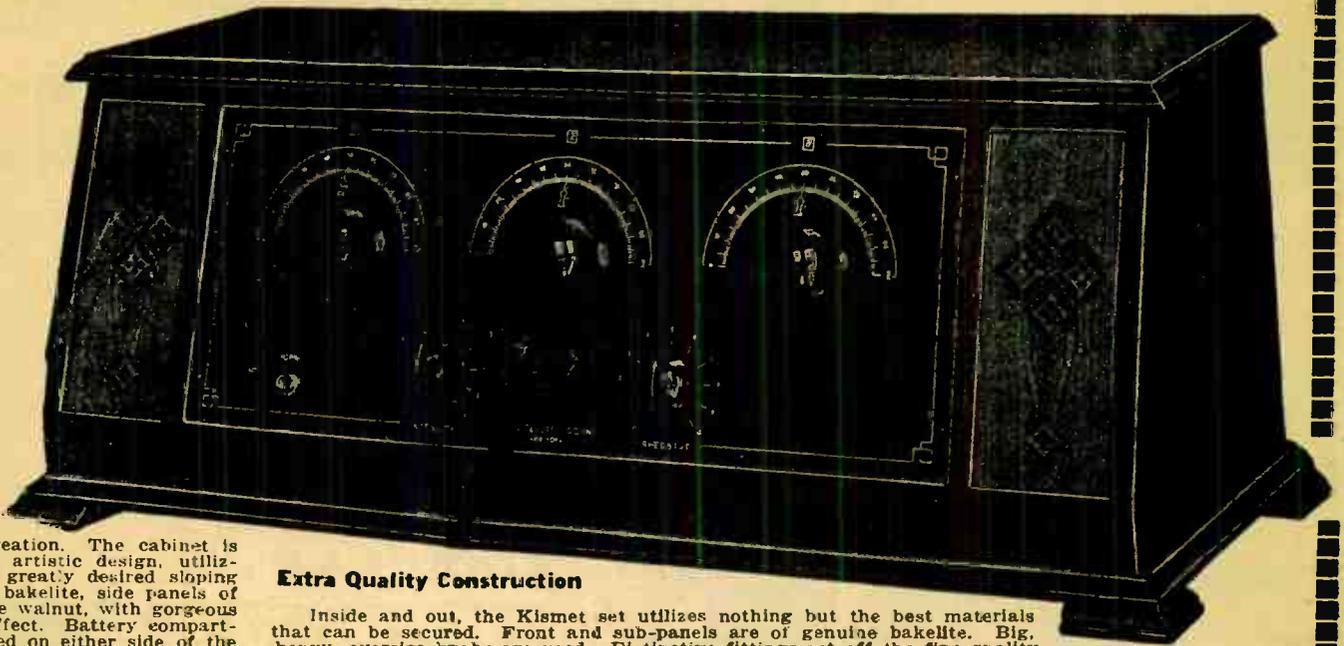
KISMET—A 5-Tube Tuned Radio Frequency Set

Here is a unique and beautiful set that is just as good as it looks. It is an extremely scientific, highly developed tuned radio frequency receiver, embodying the last word in radio construction, workmanship and materials.

New type, straight line condensers are used and there are but 11 wires in the entire set.

Beautiful and Original Design.

Where can you find such beauty as you perceive at a glance in the Kismet? It is distinctive, exclusive, a superb creation. The cabinet is a masterpiece of artistic design, utilizing the new and greatly desired sloping panel of genuine bakelite, side panels of beautiful two-tone walnut, with gorgeous two-color inlay effect. Battery compartments are provided on either side of the panel, eliminating unsightly wires.



Extra Quality Construction

Inside and out, the Kismet set utilizes nothing but the best materials that can be secured. Front and sub-panels are of genuine bakelite. Big, heavy, oversize knobs are used. Distinctive fittings set off the fine quality of the wood, and the whole is finished, engraved and polished with a skill and care in detail that instantly fixes it in the mind and fancy of the casual looker as a fine set that he would like to own.

THE MOST FOR YOUR MONEY

What amazes the public most in connection with this set is that all the exclusive quality features of the most expensive sets are incorporated in it and that it can still be secured at a price that is well within the reach of all. Its price is truly amazingly low—a price that enables you to sell this fine set to many who previously had no hope or intention of getting a set of near its beauty and power.

TONE UNEXCELLED

There is a haunting, mellow sweetness in Kismet tone reproduction that, once heard, can never be forgotten. It puts the tonal quality of many larger and more expensive sets to shame and compares very favorably with that of any set at any price.

Stock No. H2561—

\$37.50

| SUGGESTED COMBINATION | |
|--|---------|
| 1 Kismet Receiving Set..... | \$37.50 |
| 5 U201A Tubes | 10.00 |
| 1 90-Amp. American Storage Battery | 18.00 |
| 2 2301, 45-volt "B" Batteries.... | 7.50 |
| 1 Frost Musette Loud Speaker.... | 12.50 |
| 1 American Antenna Assembly.... | 3.50 |
| H2561C—Complete..... | \$89.00 |

6-Tube Revelation of 1927 --- The Herbert Receiver

A six-tube tuned radio frequency receiver, the specifications of which have never before been attempted at this price! Every receiver guaranteed by the factory and by ourselves. Pronounced the solution of perfect broadcast reception!

PERFECT RECEPTION

Just place this wonderful receiver in your home and connect up and then forget about the usual troubles—forever!

In actual tests covering a period of many months, under the critical eyes of many nationally known radio engineers, the Herbert receiver has been repeatedly pronounced the ultimate solution of perfect broadcast reception.



structed piece of apparatus they have ever seen. This type of construction makes this set mechanically and electrically permanent. The Herbert receiver will last a lifetime.

ELABORATE CABINET

No expense has been spared in obtaining a cabinet to conform to our high standards of perfection. The two-toned, walnut finished cabinet, carefully hand rubbed

EMBODIES THE BEST IN WORKMANSHIP

Hum or other annoying noises so common to ordinary sets has been removed by the perfected design and expert workmanship embodied in the Herbert receiver. As a result the quality and the clarity of reproduction of this receiver is unsurpassed.

EMPLOYS ALL THE LATEST METHODS

The entire set is suspended on special die cast mounting truss of a special design. Virtually a one-piece radio receiver mounted in a cabinet. Pronounced by a representative body of experts to be the most unique and rigidly con-

| SUGGESTED COMBINATION | |
|---------------------------------------|----------|
| 1 Herbert Six Tube Receiver..... | \$ 49.50 |
| 6 DeForest DL5 Tubes | 12.00 |
| 1 6 Volt 100 amp. Storage Battery.... | 20.00 |
| 2 45 Volt Upright Ray-O-Vac E Bat.... | 7.50 |
| 1 American Beauty Cone Speaker.... | 16.00 |
| 1 American Antenna Assembly..... | 3.50 |
| Complete—H2683C—List | \$108.50 |

and finished, makes a beautiful piece of furniture. The panel is an integral part of the cabinet. All receivers are shipped in sealed cartons in which the cushion type of suspension is used, insuring safe delivery to you.

MECHANICAL SPECIFICATIONS

Uses Solenoid type space wound coils; wave length from 180 to 550 meters; bakelite sockets, sub panel, knobs and pointers; straight line condensers, air cooled rheostat, matched transformers. Uses only 10 soldered connections. No wires visible.

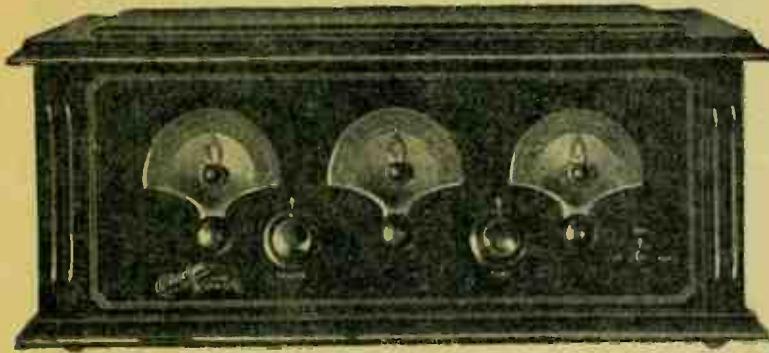
The Herbert receiver puts within the reach of everyone perfect quality, permanency of construction, beauty of design and economy of purchase and operation that has before now been beyond the radio enthusiast's fondest hopes.

\$49.50

H2683—List

TAKE ADVANTAGE OF THESE EXCEPTIONAL VALUES

The AKRADYNE



A Splendid 6-Tube Neutrodyne Receiver

A great long distance set—Easy to tune—unusually selective—Clear and natural reproduction—Interference between stations practically eliminated—All tuning more accurate.

Amplification System Two stages radio frequency, detector, one stage transformer coupled audio, two stages resistance coupled audio amplification. The neutralized radio frequency and special wiring of coils prevents internal inductive coupling which is the principal cause of howls and squeals. Volume is controlled by two rheostats and a three stage switch.

Tuning Is by three dials which insures receiving all stations with comparative ease. Stations once logged can always be brought back instantly at the same numbers. Vernier dials capable of the finest adjustment eliminates interference between stations and makes all tuning more accurate.

Simple to Operate It is impossible to exaggerate the simplicity of operation. Stations far and near are brought in with ease. Tunes through all local and distant interference. The variable condensers prevent the usual crowding of stations on both low and high wave lengths. A station once logged can always be tuned to quickly. Its exceptional selectivity makes it possible to tune in and out at will stations very near each other in wave length.

Cabinet Beautifully designed, has metal panel in walnut finish. Slightly sloping front. The entire design and style is of unusual attractiveness.

Dimensions Height 9 inches, width 22 inches, depth 12 inches; shipping weight 20 pounds.

Price Akrodyne Set. H2579—List..... **\$80.00**

| SUGGESTED COMBINATION. | |
|--|-----------------|
| 1 Akrodyne Neutrodyne receiver..... | \$80.00 |
| 6 DL-5 DeForest tubes..... | 12.00 |
| 2 2303 Ray-O-Vac "B" batteries..... | 7.50 |
| 1 231R Ray-O-Vac "C" battery..... | .60 |
| 1 American Beauty Cone Speaker..... | 16.00 |
| 1 100-ampere hour storage battery..... | 20.00 |
| 1 American aerial assembly..... | 3.50 |
| H2579C—Complete | \$139.60 |

NOTE—Set operates on 6 tubes and is so constructed that the new type power tube UX 171, H2835, can be used in last audio stage.
Tube No. 171—H2835—List..... \$6.00

MURAD-TRIPLEX 3-TUBE RADIO RECEIVER

All Dry Batteries Self-Contained



Especially designed for use in rural districts where there are no facilities for charging batteries. Easily logged and highly selective. All batteries are housed in cabinet. Uses three DV3A Dry Cell Tubes. Made by the manufacturer of the famous Murad Transcontinental. A little brother to the larger set, but it has a wallop that is a great surprise to those who think a 3-tube set cannot deliver the goods. Has good volume on the speaker and will bring in stations at a great distance on a very consistent basis. Any radio dealer will do well to offer this receiver to that part of their trade interested in 3-tube receivers.

| SUGGESTED COMBINATION H2501C | |
|--|-----------------|
| 1 Murad Triplex | \$75.00 |
| 1 Utah Serenader | 12.50 |
| 4 No. 1153 22½ volt "B" batteries..... | 7.00 |
| 3 DV3A DeForest tubes..... | 6.75 |
| 3 No. 1211 No. 6 dry cells..... | 1.50 |
| 1 No. 231R 4½ volt "C" battery..... | .60 |
| 1 American antenna assembly..... | 3.50 |
| H2501C—List | \$106.85 |

H2501
List
75.00
EXTRA
VALUE

CROSLY SPECIALS MODEL 52



This three-tube regenerative set will produce ample volume for loud speaker reception. The grouped control makes tuning easier and lends a pleasing appearance. Your trade knows this set and will be sure to buy. Crosley—Model 52. A 1,500-mile range set listing at H2510..... **\$18.00**



Super Trirdyn Special

A new and improved type of receiver employing a combination of Armstrong Regeneration, Radio Frequency Amplification and Reflexed Audio Amplification makes this three-tube the equal of many five and six tube sets now on the market. New Crosley designed low loss vernier condenser, new worm rotary type tickler control. Concealed wiring under panel. Sloping panel cabinet with room for all dry batteries. H2513—List..... **\$60.00**

| SUGGESTED COMBINATION | |
|------------------------------------|----------------|
| 1 Super Trirdyn Special..... | \$60.00 |
| 3 American 12 tubes..... | 7.50 |
| 3 1211 Dry Cells..... | 1.50 |
| 4 4151 22½-volt "B" batteries..... | 6.00 |
| 1 10B Frost Musette..... | 12.50 |
| 1 Am. Antenna Assembly..... | 3.50 |
| H2513C—List | \$91.00 |

| SUGGESTED COMBINATION | |
|---------------------------------------|----------------|
| 1 Crosley Pup | \$ 9.75 |
| 1 UV199RCA Tube | 2.25 |
| 3 1211 Dry Cells..... | 1.50 |
| 1 2151 22½-volt "B" Battery..... | 2.00 |
| 1 Pair Schwarze 3000 ohm phones | 4.50 |
| 1 American Ant. Assembly..... | 3.50 |
| H2516C—List | \$23.50 |

CROSLY PUP



A genuine Armstrong regenerative double circuit receiver for the price of a crystal set. A refinement of the one-tube set with which Leonard Weeks, Millan, N. D., heard the MacMillan expedition while the rest of the world listened in vain. Price, without accessories. H2516— **\$9.75**

IF IT'S RADIO YOU WANT—WE HAVE IT IN STOCK

NEW CROSLY RADIO TRIUMPHS

The New 5 Tube Single Dial Control



5 Tube Single Control \$60.00



5 Tube R. F. L. 60 \$60.00



5 Tube R. F. L. \$75.00



5 Tube 5-38 \$38.00



4 Tube 4-29 \$29.00

All stations found instantly on this ONE single control. It revolves smoothly under slight pressure. Once stations are found they are easily written on the drum. No log book to fuss with. Stations from end of the wave band to the other are easily brought in at all times—IN THE SAME PLACE. This advanced improvement in station finding has heretofore been found only in the highest priced radios. This one dial control does not sacrifice selectivity, in fact it improves it. Has an all metal shielded chassis, solid mahogany \$50.00 cabinet. Stock No. H2950—List.....

5 Tube R. F. L.—60

Uses the famous R. F. L. 5-tube circuit. Has three-dial control with provision for logging stations. Cabinet of solid mahogany. Panel is beautifully decorated with a fanciful Heinkel design of gold on mahogany, rose and trim. \$60.00 Stock No. H2951—List....

5 Tube R. F. L.—75

This model is identical to the R. F. L. 60 in radio design and efficiency. Cabinet is larger of two-toned solid mahogany. There is plenty of room for dry cell A and B battery blocks, although storage battery is recommended for best results. R. F. L. 75. Stock No. H2952—List..... \$75.00

5 Tube—5-38

This 5-tube tuned radio frequency set incorporates two stages of non-oscillating radio frequency amplification, regenerative Crescendon controlled detector and two stages of audio frequency amplification. Sales and performance since its introduction indicate it is a popular model and one of Crosley's most start-listing values. 5-38. Stock No. H2953—List.... \$38.00

4 Tube—4-29

A 4-tube receiver of amazing efficiency. Such radio performance has never been possible at such a low price. Brought out early this season it quickly proved its right to a permanent position in the Crosley line. Crescendon equipped. 4-29. Stock No. H2954—List..... \$29.00

5 Tube R. F. L. —5-90 Console

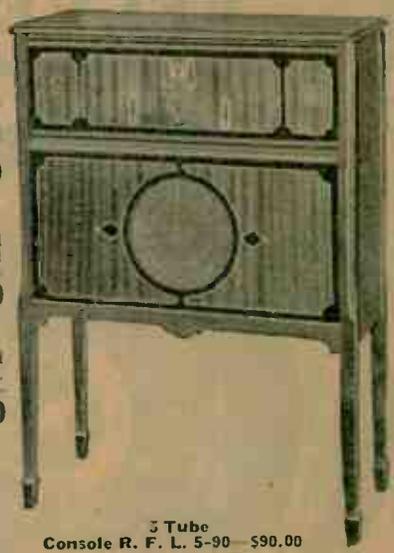
This is a special model of the famous RFL circuit so successfully manufactured by Crosley the early part of this year. Has a double drum station selector instead of three dials. It is beautifully finished in two tones and is of solid mahogany, decorated and appointed to grace the finest home. Ample room for all necessary batteries and accessories. Has built-in musician's speaker. RFL 5-90. Console. Stock No. H2955—\$90.00 List.....

5 Tube—5-75 Console, Single Dial

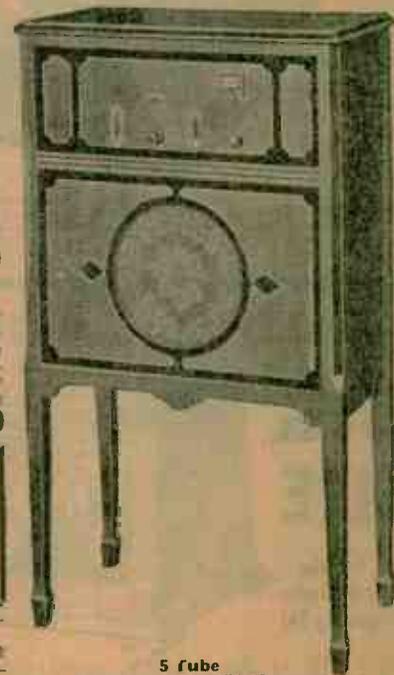
This beautifully two-toned finished solid mahogany console stands 40 1/2 inches high. A pleasing rich addition to the beauty of any room. It is a leader in the Crosley 1927 line—the 5-tube 5-75 with single drum station selector in console style. The Musicone is cleverly concealed in the compartment below the set which holds all necessary batteries readily. 5-75 Console \$75.00 Stock No. H2956—List.....

| SUGGESTED COMBINATIONS—5-TUBE SETS | |
|---|----------------|
| 5 11-5 100-ohm tubes..... | \$10.00 |
| 1 100 ampere storage battery..... | 20.00 |
| 2 45-volt 1200 Ray-O-Vac "B" batteries..... | 7.50 |
| 1 American Beauty Cone speaker..... | 16.00 |
| 1 American aerial assembly..... | 3.50 |
| Total..... | \$57.00 |

Add this total to the list of any 5-tube set for complete combination price.
Combination for 4-tube sets, same as above, except only 4 tubes List \$55.00. Add this to set price for complete combination.



5 Tube Console R. F. L. 5-90 \$90.00



5 Tube Console 5-75—\$75.00

Crosley Musicones

Their fidelity of reproduction—their tremendous capacity to handle great volume without distortion and their great sounding loud speaker on the market. Keep in mind that it's the exclusive Crosley patent resonating unit and NOT the cone that makes possible its wonderful performance.



Super-Musicone, 16-inch cone considered by some to develop more resonance in bass reproduction, and is naturally louder than its 12-inch counterpart. Beautifully decorated both in front and on the back. \$14.75 No. H2782—List.....

Musicone 12-inch cone—Price of the Musicone recently was reduced from \$14.75 to \$12.50. There is certain to be a very extensive demand for this unit, many persons preferring its 12-inch cone. No. H2780—List..... \$12.50

Herald



Cone Speaker \$12.75

Here is the New Cone Type Herald Adjustable Speaker

Herald quality with the mellowness, range and non-distorting qualities of the cone type speaker. Adjustable. Appearance suitable to go with any set or the finest furnishings. Herald Cone Speaker \$12.75 No. H2774—List.....

BUY YOUR RADIO STOCK FROM US YOU ALWAYS SAVE MONEY

THE AMERICAN BEAUTY VELVET-TONE SPEAKER

Far better than any medium priced speaker chosen and used for its wonderful tonal quality

The Best Speaker Value on the Market

Here it is, the most remarkable medium priced speaker in the world. A wonderfully pure and true tone. Beautiful design and finish. A fast seller because of its medium price and unusual reproduction. It's full of "pep" and reproduces every variety of broadcast program with life-like fidelity.

The large, heavy duty electrical unit is extremely sensitive on any "B" battery voltage, yet handles volume so efficiently it will permit the use of a power amplifier or high voltage "battery eliminators."

The wood frame is of genuine solid mahogany. It has a removable base which permits the speaker to be used as a wall cone if desired. A 12-inch cone, stands but 13½ inches high.

American Beauty Cone Speaker, No. H2716—**\$16.00**

List



DEALERS—Don't make a mistake, order a sufficient supply of these speakers, for one demonstration and one sale brings many additional sales. Just give your customers the opportunity, these wonderful values will do the rest. Order your stock, NOW.



KODEL LOGODYNE

BIG FIVE

A 5-Tube Tuned Radio Frequency Set



THIS is the world's outstanding radio receiving set. Built into beautiful dull hand finished case. No expense was spared to make the Kodel Big Five the very finest 5-tube set on the market. A set that every radio lover would appreciate and every owner would be proud of.

With its unlimited range, amazing power, wonderful tone and ease of operation it is a fixture to be worthy of any home. The interior is at once the envy and despair of other manufacturers.

Only the three low loss brass plate tuning condensers and the upper halves of the bakelite sockets are visible. All the other parts are concealed under a beautiful sloping gold engraved panel.

With every set comes a complete log book showing the exact setting for each station on the dials, and allows even the most unexperienced radio amateur to operate the set at its best.

| SUGGESTED COMBINATION H2525C | |
|---|-----------------|
| 1 Logodyne "Big Five"..... | \$90.00 |
| 5 DL-5 DeForest tubes..... | 10.00 |
| 1 100 amp. hour American "A" battery, No. 58..... | 20.00 |
| 2 45-volt "B" batteries..... | 7.50 |
| 1 231R "C" battery..... | .60 |
| 1 American Beauty Cone Speaker..... | 16.00 |
| 1 American antenna assembly..... | 3.50 |
| H2525C—List | \$147.60 |

With the finest tuned radio frequency circuit ever devised, it is a set that will always satisfy.

H2525—**\$90**
List

KODEL LOGODYNE

STANDARD FIVE

A Five Tube Tuned Radio Frequency Receiving Set



Here is a real master set that defies all competition in its class; in price, quality and performance. The world-wide popular set that is so much talked about this year.

Peerless Performance

The performance that it gives instantly proclaims the Kodel Logodyne Standard Five the best of all. Because of its medium price it is the big popular set among the radio owners today. Comes equipped with wave length chart showing the exact location and dial setting for every station.

Handsome Appearance

Its generally sloping Formica front panel, handsomely engraved in gold, is rich and dignified and the very latest triumph of radio designing. Employs a time-tested self-balanced circuit of tuned radio frequency and also utilizes only the very best of low loss and scientifically designed parts.

Its beautiful cabinet with the popular dull finish holds within its walls a set as perfect as the best radio engineers can produce and a piece of furniture that will add to the beauty and comfort of any home.

| SUGGESTED COMBINATION H2521C | |
|--------------------------------------|-----------------|
| 1 Logodyne Standard Five..... | \$70.00 |
| 5 DL-5 DeForest..... | 10.00 |
| 1 90-amp. Amer. "A" bat. No. 90..... | 18.00 |
| 2 45-volt "B" batteries..... | 7.50 |
| 1 231R "C" battery..... | .60 |
| 1 American Beauty Cone Speaker..... | 16.00 |
| 1 American aerial equipment..... | 3.50 |
| H2521C—List | \$125.60 |

H2521—**\$70**
List

OFFER THE BEST—SELL AMERICAN PRODUCTS



LOUD SPEAKERS

GUARANTEE
Buy a Utah and use it for two weeks. Compare its tone with the best the others are able to produce. If the Utah does not give better reception return it to your dealer and he will refund your money.

The speakers have proven to be the most popular line of loud speakers offered by anyone. The line contains a new type of reproducing unit. With its clear, round, ringing tone and a wonderful volume, it is without a doubt the outstanding line of loud speakers on the market.



SUPER-FLEX

The Super-Flex has a tone chamber equal to that of the usual horn type, yet it stands but 8 1/2 inches high by 6 wide—a diminutive giant in results.

Once you see this beautiful, unique speaker you can readily understand the sensational demand for it that is sweeping the entire country like wildfire. It is finished in a deep russet brown leather effect and is so neat and compact that it is often utilized with portable sets. The Super-Flex is in two separate parts. The reproducing unit is entirely in the outer bell and when it is reproducing signals the whole bell vibrates. Its natural bell shape and ingenious design permit it to throw out an unexpected volume of true, unaltered sound that is the amazement and delight of all. The under part acts not only as a base, but through its scientifically hollowed interior, serves to intensify the volume and purify and mellow the tone. The entire speaker is made of semi-hard rubber, and the entire weight is but 3 pounds. H2747—List\$10.00

NEW! UTAH BOOK SPEAKER

Absolutely the greatest stride in years in the loud speaker field.

This wonderful speaker offers to the set owner, many features that all manufacturers have been wanting for a long time. With its finish of deep brown and rich gold, it harmonizes with any room furnishing. Being impossible to blast this speaker, the high and low notes are reproduced to a perfection. Specially recommended for sets using power tubes. A full wave speaker.

We advise every one to hear the new Utah Book speaker before buying any loud speaker and judge for themselves if this is not the finest on the market. Order today, demonstrate to yourself the qualities. Your place will be the talk and showroom of the town. Be the first! Send for your speaker now. Size 17 1/2 in. wide, 13 1/2 inches high. **\$19.00**

H2743—List



The Popular Utah Supreme



Radio's supreme achievement in Music and Beauty. Sweetness of tone—clarity unsurpassed—in reproduction of instrument or voice. The high-pitched violin or the low sonorous notes of the pipe organ are alike in fidelity and beauty with the Utah Supreme. Attractive clock model, dignified and efficient. Measures 11 1/2 inches wide, 8 inches high, 7 1/2 inches deep. Incorporates a highly efficient reproducing unit based on proved principles of tone deflection. Brings out even the weakest signals with amazing volume and tonal faithfulness.

AN OBJECT OF RARE BEAUTY

The Utah Supreme is greatly admired for its beauty and its highly artistic and unobtrusive design. It lends beauty and distinction to any home. It is finished in rich, soft antique mahogany colored semi-hard rubber with pebbled leather like surface. Designed to be pleasing to both eye and ear. H2749—List..... **\$25.00**

EXTRA VALUE UTAH SERENADER

This loud speaker is the envy of other manufacturers and because of its clear tones and exact reproduction, the Utah Supreme leads all others in popularity.

Using the new 1926 type of Utah unit this speaker performs wonders and is priced within reach of every set owner who desires the best in speakers at a medium price. H2751—List **\$12.50**



UTAH STANDARD The Speaker with a Guarantee

An extremely well made and justly popular speaker. Rich semi-dull black morocco leather finish. 14-inch bell; weight 11 1/2 pounds. Its bell-like sweetness and rich mellow tonal volume captivate every listener and make them dissatisfied with any other speaker they may own or hear.

The Utah Products Company guarantee this quality speaker and say to compare this speaker with those offered by any other manufacturer and you will find that the Utah reproduction is 50% louder and clearer.

The tone quality is unexcelled. Each note on the scale is reproduced with life-like reproduction. Using the new 1926 unit the "Standard" gives out a mellow tone without the usual armature rattle. H2748—

List **\$22.50**



Utah Phono Unit

The Utah allows the radio fan to convert his phonograph into a highly efficient speaker unit.

Now your phonograph may be used to give the same beautiful undistorted musical quality of reception that we guarantee the Utah loud speakers to give.

Finished in rich gold and horn stands on a broad base which rests on the turn table of the phonograph. No tools are required, and the use of this unit in no way interferes with the ready use of the regular records.

Containing the new 1926 unit the operator need not sacrifice volume of quality of tone. H3900—List **\$10.00**

IF IT'S NEW WE CARRY IT AND AT THE LOWEST POSSIBLE PRICE

TIMMONS Cone Speakers

"Finding the Lost Chords of Radio"

These cones have a greater, truer tone range and reproduce faithfully the more beautiful harmonics that are usually lost. Far better than ordinary results are given. This is because, in its pliant, fibrous cone, it has a larger and more responsive reproducing surface and, in its specially designed cone unit, an extremely sensitive and efficient mechanism.



POWERFUL RUGGED UNIT

Especially developed for cone operation and is of the armature and lever type. The unusually powerful electro-magnet is of the permanent type and requires no adjusting.

TWO ATTRACTIVE DESIGNS

The Timmons Cone is made in two attractive models, differing in design, but identical in performance. One has an oval base and artistic tapering side-arms, while the other is without arms and has a diamond-shaped base.

The woodwork of both instruments is finished in rich English mahogany and both have the natural beauty of simplicity which blends so well with practically any furnishings. They occupy very little space and may be placed on top of even the smaller set cabinets.

Oval Base Model—**\$30.00**
No. H2910—List.....
Diamond Base Model—**\$25.00**
No. H2911—List.....



ERLA CONE SPEAKER



A NEW PRINCIPLE IN CONE CONSTRUCTION

A NEW STANDARD IN CONE REPRODUCTION

This new Erla Cone is different from all others in reproducing units. The internal armature is a diaphragm itself. It fastens directly to the outer composition or diaphragm, making it impossible for the unit to get out of order. This is a big advantage, as it is the only cone that is practically impossible to get out of order. Tone quality is essential also. The new Erla Cone has a super-line quality all its own, due to the new unit. We recommend that you hear it to fully appreciate its wonderful reproducing qualities. Erla Cone, No. H2912—
List..... **\$17.50**

AMERICAN BEAUTY VELVET-TONE HORN SPEAKER

A MASTERPIECE OF ART

Standing 21 inches high with a 12-inch bell, this American Velvet Tone Speaker truly is an "American Beauty." Place it on the finest furniture and the moulded rubber feet on the heavy base will prevent the slightest scratch.

Many loud speakers detract from, rather than enhance, the appearance of a radio set, but this Super-Special is an addition to any set. The carefully designed gooseneck horn is of beautiful bronze polychrome, stippled green, and slopes gracefully to the base which also is polychromed. The whole effect is that of a fine medieval plaque.

Hook it up, and its deep, mellow tone, perfected by the best radio engineers in America, will be a pleasant surprise.

"How do you do it?" has been the question of every dealer who has seen this master-speaker. Your customers likewise will find it hard to believe that you can give them such value for the price. Orders already are heavy for this big special. You will make no mistake by getting half a dozen at once. They will sell themselves!
American Beauty Speaker, No. H2750—List.. **\$15.00**

Carries the Personal Seal of Approval of Our President



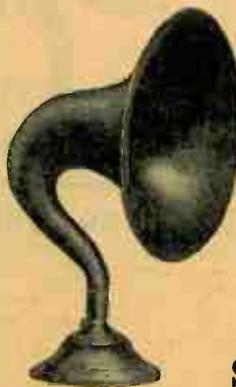
Spartan Speakers Disc Model

A combination of beauty and efficiency long sought has now been made commercially practical in this latest Spartan creation. Reproduces faithfully and without distortion. Encased in a handsome matched walnut cabinet combining the very best in acoustical engineering with splendid decorative taste. Height 14", width 16", depth 6". Model 100 Spartan Disc Speaker. **\$25.00**
No. H2787—List.....



De Luxe Horn Speaker

A new true tone horn speaker. From an acoustic standpoint, the design of the horn in combination with the now famous Spartan balanced armature unit, leaves little to be desired in volume, clarity, timbre and overall musical reproduction. The tasteful use of high lights on antique bronze makes it an acceptable and ornamental addition to any well appointed living room. Height 23", diameter of bell 15". Model 500 Horn Speaker. No. H2792—List **\$18.50**



Junior Disc Speaker

Exceptionally pleasing in tone. Covers with excellent volume the entire musical scale. An audition at once calls forth striking comment. It is equally pleasing in appearance as in tone, for the dark green pith wood diaphragm is set off by an artistically designed frame and base of rubbed ebony finish. Height 15 1/2 inches, diameter 13 3/4 inches. Model 400 Disc Speaker. No. H2793—List **\$12.50**



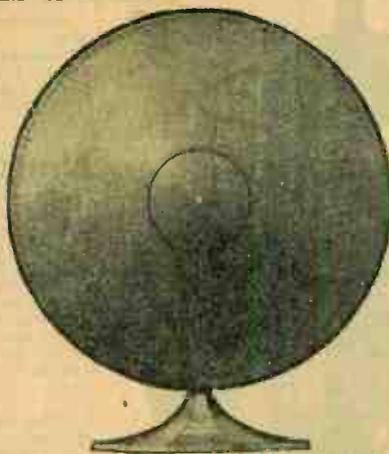
GUARANTEED TRIMM

Loud Speakers

TRIMM'S NEW CONE SPEAKER

An Amazing Value As Sensational As The Reproducer Itself

Just as Trimm Headsets and Trimm Horns in past years established new standards of Radio reproduction, so also is this New Trimm Cone in advance of all radio reproducers you have listened to. It reproduces with true definition every instrument, every tone, every pitch of voice or instrument, throughout the entire scale of audible sound. It brings to radio the deeper and higher tones heretofore so fre-



quently missing from radio amplification. The Trimm Cone embodies an entirely new principle of vibratory transmission here used for the first time.

Unquestionably, it is the last word in radio reproduction. This will be the season's biggest money-maker for every retailer. Trimm cone speakers (17" diameter). No. H2717—

List \$16.00

TRIMM ENTERTAINER



This is another popular model in the Trimm 1926 line of Reproducers and offers dealers for the first time a high quality speaker at an intermediate price, which fits nearly every pocketbook. This new goose-neck, adjustable speaker is bound to be one of the largest sellers of the Season by reason of its low price and clear, limpid tone.

Try "The Entertainer" on the man who has vowed he never would have a "loud speaker in his home," and watch his incredulous smile of delight. No wonder, for all harshness, blare, clash and metallic clang has been removed.

FOR ALL PURPOSES

The Trimm Entertainer cannot be beaten for results and price. The adjustable unit feature is of the very latest design. It will pay you to feature the Trimm Entertainer, not only in dollars and cents, but for the extra value you will be giving your customers. No. H2721—List. **\$17.50**

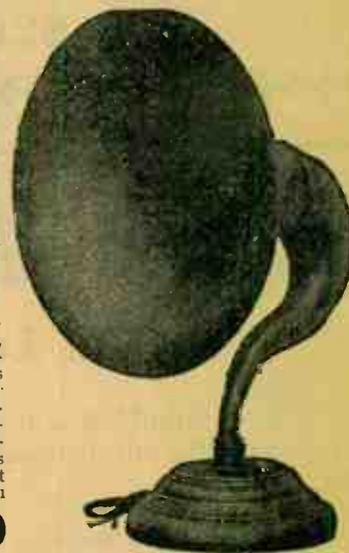
TRIMM Concert Model

Here is a speaker that faithfully reproduces without distortion, the deep rumble of organ bass notes to the high, metallic timbre of the violin. Gives indescribable tone to even a cheap set while doing full justice to the most expensive. Horn is 22 inches high, with a 15-inch bell.

USER "GETS" ENGLAND

Using this famous Trimm Concert Size loud speaker, a Glasgow, Ky., dentist heard Newcastle, England. This wonder speaker sells for \$25 and is a friend-maker for every dealer who stocks it. An instrument of finest precision, costing no more than makeshift speakers of a few months ago. Put this speaker into the homes of your best customers and it will win you friends.

No. H2718— **\$25.00**
List



TRIMM HOME SPEAKER



This new Model 25 is furnished with genuine Volconite goose-neck horn. Has pep and a kick unequaled by speakers selling for less than \$25. Dealers who have stocked Trimm Reproducers in the past know the satisfaction and the repeat orders that follow their sale.

The music this fine speaker reproduces is fully in harmony with its appearance of luxury. Try it on bedtime stories, jazz bands or a soprano solo and you will find the same pleasing flow of melodious tone, without blasting or semblance of distortion. Try this on the man or woman prejudiced against reproducers and we know what the result will be.

No. H2720— **\$10.00**
List

TRIMM LITTLE WONDER

Phonograph Attachment

Here is a phonograph adapter that is indeed a "Little Wonder!" Although retailed at a popular price, it has the same reproducing unit that is used in the popular Trimm Home Speaker, which means that you get pure, true tone and splendid volume when you attach it to your talking machine. The factory-regulated diaphragm insures correct reproduction of both high and low tones and true loud speaker volume at all times. Remember all Trimm products are given an unconditional lifetime guarantee of perfect satisfaction. No. H111—List. **\$4.50**

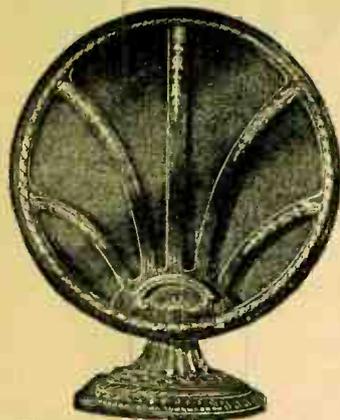
TRIMM GIANT SPEAKER UNIT

is made with a forged Tungsten Steel magnet, with extra large sized diaphragm. Remember Trimm Phonounits are standard with over 25 manufacturers of high-grade talking machines. Trimm Phonocapters are designed to fit Victor, Silvertone and Sonora tone arms, but fittings can be supplied to enable installation on any make of phonograph. Here is a reproducer of the highest quality costing no more than a low-priced loud speaker. **\$10.00**
H-112—List



THE PRESIDENT OF THIS COMPANY STANDS BACK OF EVERY SALE PERSONALLY

Thorola Cone



Model No. 9
A Revelation In Cone Speaker Reproduction

The Thorola Cone is like no other—the low tones resonate clearly from the flat surface of the diaphragm; the center cone reproduces the high and middle tones with marvelous purity and distinction. Here is a dual principle that exactly reproduces every sound wave. The Thorola Cone gives the finest radio ever known with cone speakers.

In appearance, in artistic beauty of line, in rich ornamentation, in exquisite color tone combinations, the Thorola Cone stands apart. The graceful grill with Florentine surface charms and rests the eye.

Rich walnut and old gold finish. It is equipped with handle, making it convenient to carry speaker from room to room. Powerful two-coil vibrating reed unit; correctly adjusted at factory.

Five-foot cord with standard phone tips. Dimensions—17¼ inches high, 14½ inches wide.

Net weight, 7 pounds; shipping weight, 13¾ pounds. H2762—Thorola Cone Speaker No. 9
List **\$20.00**



Thorola No. 4

Here is an excellent value with Thorite horn. Unexcelled for volume. The one-piece horn of genuine Thorite insures against any vibration and gives true reproduction. Thorola Speakers complete with jack plugs always have been big sellers at their price.

The use of the push pull principle combined with a permanent adjustment makes Thorola Speakers ideal for the radio novice. You can put a Thorola into any home and know it will stay because of this "fool proof" principle. Remember, Thorola Speakers are guaranteed to be superior in tone volume to any loud speaker on the market for the same list price. H2761—**\$25.00**
List

EXTRA BIG VALUE



Thorola Junior

This Thorola model fills a big demand by dealers wanting to feature a genuine Thoite horn reproducer at a moderate price. Has permanent adjustment and high-grade workmanship of other Thorola speakers.

Here is presented an unusual combination of Thorola reputation, low price and the fine profit to be made on this number. H2762—**\$15.00**
List



Thorola Phonograph Attachments

No. 6
The unit is identical to that used in the popular Number 4 Thorola Speaker. Reproduction is strong, clear, and natural, because of the improved, "double push-and-pull" principle of amplification—cannot rattle or blast.

The tone chamber of the phonograph is utilized, thus making use of the years of experience in acoustical design developed by phonograph engineers.

Dimensions—5 inches high, 3½ inches wide, 2¾ inches deep. H3905 Thorola Phonograph Attachment No. 6—List..... **\$15.00**

PHONOGRAPH ATTACHMENT.

No. 8
The very remarkable unit is used in Thorola Junior, is also used in this Thorola Phonograph Attachment. It is noted for its deep, mellow tone, and extreme sensitivity.

A knurled thumb adjustment nut on side of unit, regulates air-gap, increasing or decreasing volume as desired.

Dimensions—2½ inches wide, 2¾ inches deep, backed 12 to a carton. H3906 Thorola Junior Phonograph Attachment No. 8—List..... **\$7.50**

THE MANHATTAN JUNIOR LOUD SPEAKER



A Real Loud Speaker With the Concert Modulator

The Manhattan Junior loud speaker is indeed a real musical instrument, and recording all broadcast programs with a fidelity and trueness that is remarkable.

Many of the loud speakers now are simply a headset in a horn. This is not true however of the Manhattan Junior. The reproducer is large and especially designed for this type of horn.

Its magnetic system is powerful, yet so nicely balanced that every shade of tone and sound is recreated with the same accuracy of technique with which it originally came from the artist.

The Manhattan Junior Loud Speaker is not a product of a small unimportant firm. It is built by one of the oldest and largest corporations in the country, specializing in reproducers.

With this speaker you can hear with perfect accuracy anything your receiving set can take out of the air.

In its construction are many years of planning, experimenting and ideas.

The Manhattan Junior Loud Speaker is so ruggedly constructed that it will operate perfectly over a period of many years and can be used as a meter to tell when the set is working properly.

This laboratory tested model will indicate trouble such as bad tubes, weak batteries and will show in the reproducing.

The Manhattan Junior has the famous "Concert Modulator" adjustment to provide regulation of set, tubes and strength of "B" battery current, so the best results can be obtained.

This eliminates any possibility of "chattering" caused by overloading from powerful receiving sets.

Insist on having a Manhattan Junior Loud Speaker and know you are getting the best.

H2756
List



Big Value

\$10.00

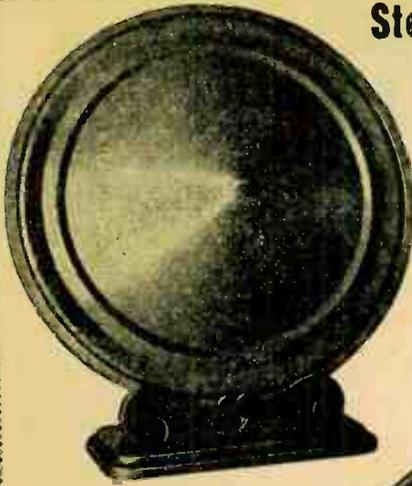
YOUR ORDER RECEIVES THREE HOUR SERVICE FROM THE AMERICAN

Stevens Speakers

Model "A" 17½ inch

A marvelous speaker. Ideal for the home—decorative and with wonderful tone. Mahogany sounding board increases volume and resonance. Can be used with base or hung on wall with base removed. Complete with easel base and silk hanging cord.

No. H2836—**\$25.00**
List



Model "B" 14½ inch

Similar to Model "A" but smaller and equipped with exclusive adjustable feature. Cone or top can be turned to any angle or horizontal to give lamp effect. (Not supplied with hanging cord.) Ornamental and highly efficient.

No. H2937—**\$16.50**
List



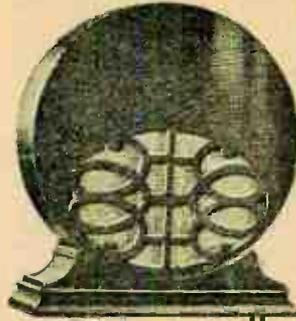
TELEPHONE

RADIO SPEAKERS

RADIOSPEAKER 60—all wood construction. The interior design—exclusively Teletone's—is fashioned from seasoned spruce, the wood of better violins. The Patented amplifying principle renders naturalness and tone beauty by a scientific acoustical arrangement of gently formed smooth spruce ducts.

The Teletone-made unit is an achievement of advanced engineering principles and skill. With a floating armature, it cannot rattle under heaviest volume. It is non-adjustable and set to the best performing point; guaranteed to remain distortionless and fool-proof. It keeps its perfect adjustment, operating with equal nicety on 90 or 135 volts, or higher.

The outward appearance of Radiospeaker 60 is a rich rubbed finish of either American Black Walnut or African Mahogany. Its dignified beauty adds charm to any set or setting. Its performance makes any receiver better. If you want the best, just compare this speaker with any other and hear the difference. Radiospeaker 60 (fully guaranteed in every way)—15 in. high, 3¼ in. deep, weight 5 pounds. **\$32.50**
No. H2754—List.....

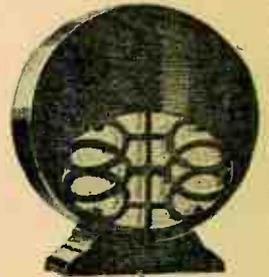


TELEPHONE
Radio Speaker 60

Radiospeaker 62

RADIOSPEAKER 62—smaller than the "60" but precisely the same in acoustical construction. The Teletone design, the mellowing wood, the clear, distortionless unit are the same as found in the larger Teletone. This "62" meets the demand for a truly beautiful and capable speaker at a moderate price. The exterior is rich rubbed African Mahogany. Fully guaranteed. Radiospeaker 62—13¼ in. high, 3¼ in. deep, weight 4 lbs. No. H2755—List....

\$22.50



TELEPHONE
Radio Speaker 62

Amplion The World's Best Speakers and Speaker Units

The Dragon A-R19

This beautiful speaker, standing twenty high and with a bell of fourteen inches in diameter is of the popular concert type. The throat and unit are finished in crystalline enamel and with the dark hand rubbed mahogany bell, the Dragon A-R 19, stands out as the World's finest receiver.

Containing the famous Amplion Floating Diaphragm which is an exclusive feature and accounts for the extraordinarily fine tone, and faithful reproduction.

\$42.50



H2770—
List

THE JUNIOR DeLUXE

The Amplion Junior De Luxe model is the same as the Dragon except that it is of smaller dimensions. The popular model is 15 inches high with a ten-inch diameter bell. All the features of the larger model are incorporated.

Finished in crystalline enamel with high gloss hand rubbed mahogany bell and nickel trim. The most popular Junior concert type speaker on the market.

H2771—
List..... **\$27.50**

THE AMPLION JUNIOR

This beautiful model appeals to the set owner who appreciates a good speaker at a medium price. It produces a tone equal to many of the larger and more expensive speakers. Having a metal bell finished in crystalline enamel, the Amplion Junior Speaker is indeed a work of art.

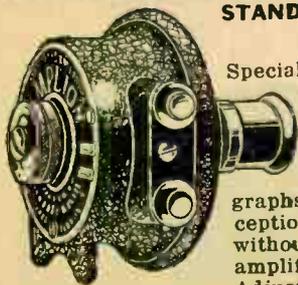
Equipped with adjustment screw as in the larger models and backed with thirty-eight years of experience.

H2772—
List..... **\$24.00**



Amplion Speaker Units Give the Best Reproduction

STANDARD MODEL AR-67



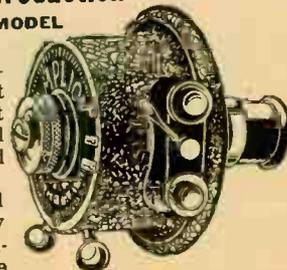
Special rubber coupling device furnished for use with any of the standard phonographs. Produces exceptional volume without use of power amplifier or battery.

Adjustment knob at rear of all units permits tuning of Amplion to each individual set. Utilizes the famous Amplion floating diaphragm. H3975—
List

\$12.00

CONCERT MODEL

This unit is without question the best on the market and fits all standard phonographs. Coils wound with heavy wire that allows its use with a power amplifier when extreme volume is wanted. However this unit gives sufficient volume for all ordinary purposes without amplifier. All Amplion Units come equipped with blade type.



H3976—
List..... **\$20.00**

AMPLION SMALL UNIT



A small type for all sizes of phonographs. Produces large volume with a clear tone. Handsome in appearance and fully guaranteed. Designed for the person who desires good music at the lowest possible price. H3975H—
List..... **\$6.00**



Amplion Dragon-Fly

A perfect miniature model of the larger speakers. Nine inches high, with horn of five and one-half inches in diameter. Crystalline enameled. Floating diaphragm. Excellent in tone. A real value. **\$12.00**
H2722—List..

Amplion Speaker Units Give the Best Reproduction

ALL GOODS LISTED SUBJECT TO PRIOR SALE

New Kodel Radio-Cone Loud Speaker



Using the same "sound board" principle of tone reproduction as employed for many centuries in the manufacture of fine violins, pianos and other musical instruments, the Kodel Radio Cone sets new standards in the radio world for loud speaker performance.

The superior performance which has won instant favor is obtained by mounting a 12-inch cone of specially treated material upon a circular wooden sounding board which serves also as a sounding board.

The tonal qualities of this scientifically correct sound box are perfect and reproduce all tones with an exactness which is impossible with the common type of metal frame constructions.

The improved style produces a speaker which is pleasing to the eye and by removing the base and attaching a colored silk cord, the radio-cone is quickly connected into a wall cone and may be hung on the wall.

Finished in dark brown mahogany and set upon a handsomely designed base, the Radio-Cone harmonizes with the finest of radio cabinets and house furnishings.

H2769
List **\$20.00**

Kodel Microphone Loud Speaker



A loud speaker of distinctly original design and equal to the best in tonal quality and volume. An exact duplicate of the microphones used by the big broadcasting stations. Instantly attracts the eye and already is selling by the thousands.

You will find many customers wanting to get away from the conventional horn type of speaker. Offer them this Microphone and watch their smiles of satisfaction.

FINISH OF DARK BRASS

The unit mounted inside the Microphone has an ingenious new snail shell horn that reproduces a tone as perfect and clear as the most expensive horn speakers.

The finish is of dark brass that harmonizes well with the most luxurious home furnishings.

The Microphone is made with two different units. One speaker contains the famous Large armature type unit, and the other a regular phone type. Either type will give excellent satisfaction.

With Large Unit

Kodel Microphone Speaker with Large Unit.
H2700—List **\$18.50**

With Phone Unit

Kodel Microphone speaker with phone type Unit.
H2701—List **\$15.00**

Latest Kodel Product

The Microphone is one of the latest products of the famous Kodel line of radio supplies, nationally advertised and well known. You will find it a big seller, especially at the low price.



THE PACENT CONE



This Cone is a decided advance in Speaker quality—not only does it give absolute fidelity of tone but it also reproduces the greatest range of sounds now possible in radio reception.

The Pacent Cone Speaker is correct from every engineering standpoint, with a balanced armature, licensed double Cone and specially selected brown grained prepared paper. It is rigidly constructed and so designed as to take extreme power amplified signals and yet be sensitive enough to respond to weak signals.

The Pacent Cone is beautifully proportioned, presenting a harmonious, blending appearance wherever placed. Licensed under Lektophone patents.

Type A Cone—17-inch diameter, complete with detachable plug. No. H2669—List **\$28.50**
Type WA Super Cone, 36-inch Wall Type. **H2669WA—List** \$65.00

DICTOGRAND SPEAKER



Very sensitive and unusually responsive to weak signals. A simple turn of the adjusting knob will increase or decrease volume as desired. An excellent value for the price and with the guarantee and well-known name behind it.

H2077—List
25.00

Music Master VI



The worth of this loud speaker is unquestioned. Many radio men claim that no other speaker approaches the Music Master in quality of tone. Reproduction of this instrument is deep and mellow, but without

"boom" or rattle. It is the kind of speaker you hook up to your best sets when you want a demonstration that will be sure to please.
H2740—List **\$30.00**

BRANDES CONE SPEAKER

An attractive piece of furniture. It removes the last objection to an external loud speaker. There is no horn at all and the cone itself is effectively concealed in a handsome case which is finely



finished in dark mahogany. Very low tones—the kind that used to be muffled and lost—are reproduced true and clear. The magnets in this new speaker are very large. There is no diaphragm, but a small armature which reacts to the faintest impulses, thus giving the best in reception. The speaker is 13 3/4 inches high, 10 1/2 inches wide and 7 1/4 inches deep. **H2736—List** **\$25.00**

A very handsome speaker with the tone quality unexcelled and with unheard of volume.



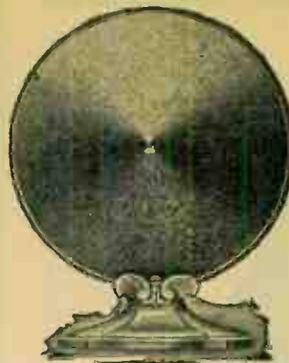
Frost Musette Loud Speaker

The country has gone wild over this popular speaker. The beautiful tone it delivers is a revelation to those who think that a low priced speaker cannot deliver the goods. Every dealer has a call for a speaker he can sell between ten and fifteen dollars. The Frost Musette, selling at \$12.50, fills the bill nicely. In appearance it is hard to tell this number from speakers selling for twice as much. The base is made in a stippled effect and the horn proper is smooth bakelite. The contrast creates an effect that is pleasing to the eye. H2745—List.....

\$12.50

This speaker given highest award at N. Y. Radio Show.

New Spartan Disc Reproducer



THIS reproducer embodies all the latest developments that scientific investigation has proved desirable in the re-creation of pure, natural tones. Voice and music are brought out with utmost fidelity. Exhaustive tests were conducted in obtaining the most perfect unit and diaphragm for this speaker. The bronze metal base, below the artistically decorated cone, goes to make up an ensemble which will enhance the appearance of any receiver.

Stock No. H2765—List

\$18.50

A fitting addition to any set.



THOROPHONE FOR CONCERT USE

A loud speaker for concert work and of exceptional volume. Horn is made of Thorite the same as other Thorola speakers. The only electro magnetic solenoid speaker with a controlled diaphragm. Will stand over 1000 volts of "B" battery without injury, rattle or blast. Can be heard clearly for blocks. This speaker is without an equal at any price for volume and concert work in large halls. Makes a very wonderful addition to any radio receiver. H2724—

List **\$45.00**

NEW WESTERN ELECTRIC

36-Inch Cone Type Speaker

Absolutely the newest thing out. A great big 3-foot cone—delivers an astounding volume of sound with a purity and sweetness never before given by any reproducing device. This is a product the Western Electric engineers have been working over for years. Now, their researches bear fruit in this wonder speaker. Send in your order today for one of these big beauties as a demonstrator. Put it in the window, and hook it up. We'll let you be the judge if a display like that won't bring them in, and we'll let the Western Electric reputation answer for the statement that the speaker will perform in a way to make the sales H2732—List

\$87.00

The Greatest Speaker of All Time.



Brandes Type H

This Speaker is in answer to a very definite demand for a reproducer at a medium price which will give supreme performance. Gives great volume with a minimum of current input. A typical Brandes Super-Value.

Special Construction

The laminated pole pieces inherently increase the efficiency of the electric magnets. This new "H" type is adjustable by screw in back of base. Height, 26 1/4 inches, with 12 1/4 inch bell. H2705—List

\$18.00

Table Talker



This is an improved Table Talker at the old, low price. Probably no speaker in America is better known to the general public and sells more easily. No extra batteries are required for its operation and no Speaker gives better quality reproduction for the price. Horn is 18 inches high with 10 inch bell. H2704—List

\$10.00



Type H

Table Talker Straight Type A very Popular Brandes Speaker. Thousands in use. Of Straight Type. H2704A—List

\$8.50

New Western Electric Wall Cone Type Speaker

36 Inches in Diameter

We are offering this new wall type 36-inch cone type speaker, novel in appearance and wonderful in action. Delivers a fine quality of tone and will add materially to the appearance of any home. The popularity of the Western Electric name will make this new speaker sell, and the high quality of the speaker itself will make it stay sold.

H2728—List.....

71⁵⁰

Western Electric No. 540AW Cone Type Speaker

Pleasing in appearance and a wide angle of sound distribution makes this cone type speaker a welcome addition to any dealer's stock. Beautiful bronze cone type with bronze base. Has large fibre diaphragm and gives a true mellow reproduction. To show this speaker in your store is to create a demand for it and establish sales.

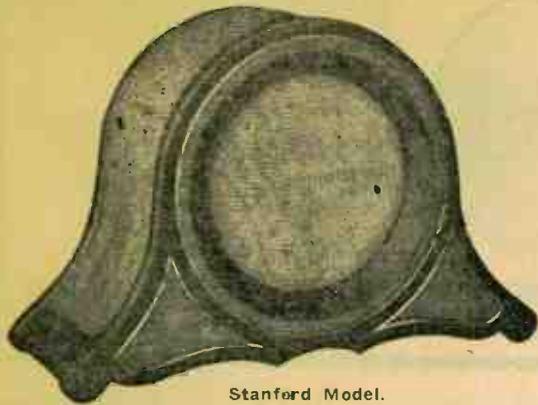
H2730—List **32⁰⁰**

A Very Popular Speaker



PROMPT REFUND ON ALL OVER REMITTANCES

MAGNAVOX CONE SPEAKERS

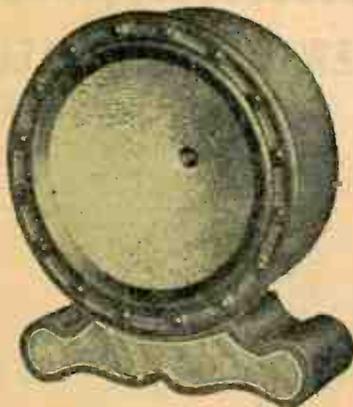


Stanford Model.

Everyone knows of Magnavox, the first and original radio loud speaker. These new cones are a development and outgrowth from the original. Just try them on any test desired.

Stanford Model—Genuine mahogany, two-tone finish. Size, 15¼ in. wide, 10½ in. high, 6¼ in. deep; 7-in. cone. Complete with cord and plug. No. H2618—**\$35.00**
—List.....

Cornell Model—Artistic non-resonant metal finish, mahogany base, two-tone finish. Size 9¼ in. wide, 11 in. high, 5 in. deep; 7-in. cone. No. H2619—Complete **\$22.50**
—List.....

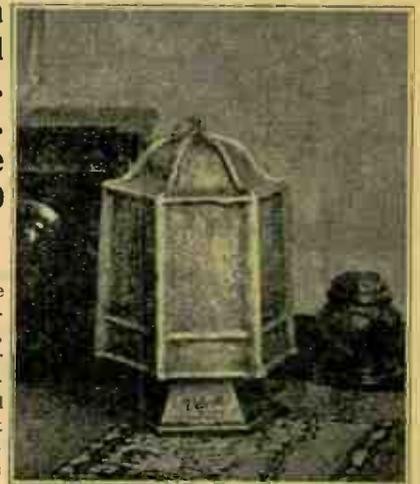


Cornell Model.

The Most Worthy Successor to the ORIGINAL Radio Loud Speaker. The NEW MODEL CONE is a Revelation. Stop! Look! and Listen to the New Magnavox.

Velvet Speaker The Lantern

A Great Value in Appearance and Performance. Beautiful Tone. A Remarkable Speaker for \$12.50 List.



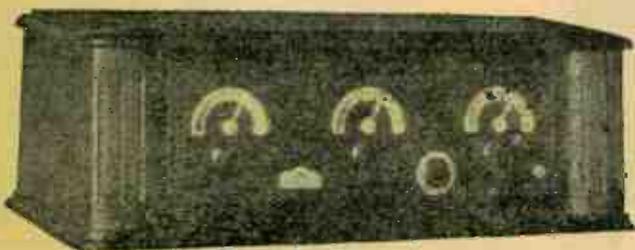
Just one hearing of the "Lantern" will actually convince you that here, at last, is unusual value—for clear cut reception and most appealing design. You will know then, that the Velvet "Lantern" is a truly marvelous improvement that opens the way for hundreds of sales which have previously been held back to wait for "good" radio reception.

Of a design of truly exquisite beauty—of antique bronze with hand crafted finish—with the six-octave Borkman Velvet Unit—with sixty-five inches of horn—all this contributes to make Number Twenty-one a radio reproducer that quietly satisfies the unconscious longing for perfect radio.

The low notes, so highly sought, come in with inspiring resonance and proper proportion; yet announcement is clear and natural. A new beauty—a new acoustical accomplishment—these will delight you because of sheer sparkling sweetness of the music, or voice. Volume is—as you will it! Why! "It's just as if you were there." A splendid buy. Will take power amplification without distortion. No adjustments to make. "Lantern" Speaker. No. H2742—List..

\$12.50

AMRAD-Licensed NEUTRODYNE



5-TUBE NEUTRODYNE RECEIVER
Crosley Takes Over AMRAD

Here is the result. A new model, 5-tube, genuine licensed Neutrodyne at a surprisingly low price—\$60. A model that surely would have listed at \$100 or more had it not been for the advent of Crosley "the master of mass production"—taking over Amrad.

Here you have all the results and advantages of the Neutrodyne type of circuit. Results are what counts and results are given by the Amrad Neutrodyne. In addition to the unusual results, the set is beautifully designed and constructed. Will harmonize, yet be distinctive, in any type of surroundings.

Take advantage of what Crosley has done for the Amrad. A truly fine receiver that will compare favorably with the best of sets, and at an amazingly low price for the value.

**SUGGESTED COMBINATION
H2507C**

- 1 Amrad Neutrodyne\$60.00
- 5 DL-5 DeForest tubes..... 10.00
- 1 100-ampere hour American "A" battery, No. 58..... 20.00
- 2 2303 45-volt "B" batteries... 7.50
- 1 231R "C" battery, 4½ volts. .60
- 1 Microphone speaker with large unit 18.50
- 1 American antenna assembly 3.50

H2507C—List\$120.10

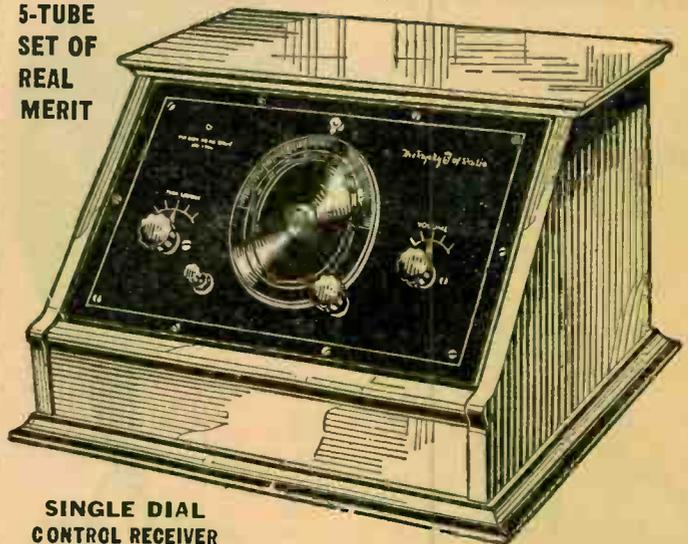
Crosley-Amrad combination is your gain. A wonderful 5-tube Amrad Neutrodyne Receiver for only—

\$60.00

List. Stock No. H2507.

Colin B. Kennedy --- Model 20

5-TUBE SET OF REAL MERIT



SINGLE DIAL CONTROL RECEIVER

This newest addition to the Kennedy line is a one-dial, five-tube, radio frequency receiver, that combines extreme operating simplicity with accurate tuning of all stations. The single dial is a special Kennedy development, and is so arranged that all stations are uniformly distributed from one end of the scale to the other. It is five inches in diameter and has a positive vernier control. Widely spaced graduations assure easy reading of the dial scale. This is accomplished by means of the new Kennedy straight line frequency condenser of unique design. Cabinet of satin finished solid mahogany. H2597—List

SUGGESTED COMBINATION

- 1 Kennedy Model 20 Set.....\$80.00
- 5 DL-5 DeForest tubes..... 10.00
- 2 2301 45-volt "B" batteries..... 7.50
- 1 American 90 amp. stor. battery.. 18.00
- 1 Frost Musette Speaker..... 12.50
- 1 American aerial kit..... 3.50

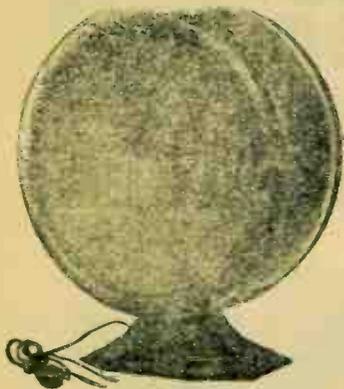
H2597C—Complete\$131.50

\$80

WE SELL WHOLESALE TO LEGITIMATE DEALERS ONLY

ACME--Speakers and Power Units

SPEAKERS



“Double Free-Edge Cone”

This speaker appeared on the market last year for the first time and has met with tremendous success. The public acceptance of it is due to the fact that after all “how well can you hear is the thing that counts.” The units used are entirely new and of such rugged construction that permanency is assured. The cones are each 14 inches in diameter, giving a large radiating surface. The use of the free-edge cone insures a flat frequency range and prevents any detrimental warping or shrinking due to moisture or changes in weather.

The direct current in the speaker circuit aids in the operation and need not be shunted out as in some speakers. A single adjustment is provided for taking care of increased plate current when used. The metal case is finished in tan and easily harmonizes with all kinds of living room furniture.

K-1 Speaker. No. H2795— **\$25.00**
List

Cabinet Model

The Acme K-2 speaker has the same internal construction as K-1. It is the double free-edge cone type built into a beautiful mahogany cabinet. The same “how well can you hear is the thing that counts” applies. As with the K-1, notes, tones and inflections are brought out as never before and for the first time orchestra volume can be had without the desire to turn it down. A real de luxe model that will be a credit to the finest surroundings. As for acoustic operation, no difference can be noticed between K-1 and K-2, and the tonal quality is a startling revelation. K-2 cabinet model de luxe. No. H2794—



List **\$38.00**

Single Free-Edge Cone

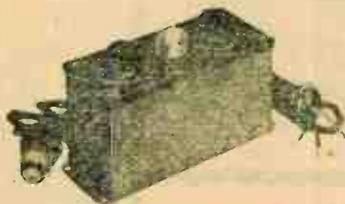


The Acme Company's Laboratory recently developed a smaller cone speaker having a single free-edge cone 11 inches in diameter. All the faithfulness of reproduction is maintained in this unit. This speaker can also be adapted to wall mounting by simply removing the base and adding a special fitting on the back which is so designed that a silk cord can be attached for suspension. The metal case and base are finished in green bronze of beautiful color. K-3 cone speaker. No. H2789—List

\$18.50

“A” Power Units

This unit is connected to the 110-volt 60-cycle line on one side and across the storage battery on the other. The battery acts simply as a condenser, the filaments drawing their current from the lamp socket, the battery being neither charged nor discharged. This unit is neither a trickle charger or battery charger, but an alternating current power supply for use only when the set is operated.

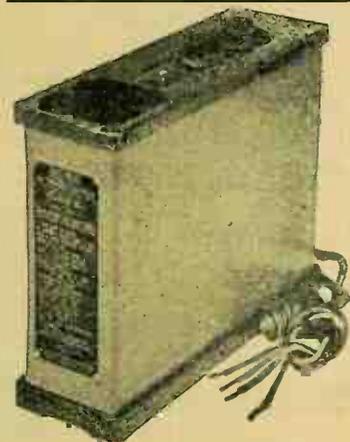


A-1 unit without tubes. 110-volt, 60 cycles. No. H2162—List..... **\$42.00**
Requires 2 2-amp. Tungar tubes.
No. H3340—List, each..... **4.00**
C-1 Unit. C power supply. Two voltages up to 50 volts, 60 cycles. No. H2163—List **16.00**
Requires 1 Tungar tube. No. H3340—List **4.00**

“B” Power Units

This Eliminator is one of the finest on the market and employs the renowned Raytheon rectifier tube. All transformers, chokes, condensers, resistances, etc., are of heavy, over-size construction, permitting of line fluctuations and power overloads without detrimental effects either to the set or to the eliminator. Delivers a smooth, even flow of non-pulsating current. No hum can be heard, nothing to get out of order. Makes better reception possible.

Delivers 180 volts at 40 milliamperes, sufficient to handle up to 12 tubes even if same set employes one or two power tubes. New model has two variable resistance controls permitting a variable R. F. voltage as well as a variable detector voltage.



E-1 Unit with Raytheon tube. To 12-tube sets. 110 volts, 60 cycles. No. H2165—
List **\$50.00**

E-3 Unit with Raytheon tube. To 6-tube sets. 110 volts, 60 cycles. No. H2167—
List **\$39.50**
E-2 Unit. To 12-tube set. 110-120 volts. D. C. No. H2166—
List **25.00**

FOR OTHER ACME ITEMS SEE PAGE 59

Kodel A & B Radio Transifiers

Perfect
"A" & "B"
from your
Light
Socket

During the last 14 years the Kodel Radio Corporation has built up a reputation as leaders in the battery power field. If you buy Kodel Transifiers for your set, you are buying the best.

Model 10 "B" Transifier



A perfect plate current supply for all types and makes of receivers using 10 tubes or less. Eliminates both "B" and "C" batteries, produces no hum, gives greater volume and increases volume on distant stations while operating directly from lamp socket.

Contains binding posts supplying B-; 45 volts detector + 67½ volts + for intermediate amplifier; 90 volts + amplifier, 150 volts + power amplifier; 4 volt grid bias (C battery) and 12 volt grid bias (C battery).

The Model 10 is absolutely clean, safe, and silent in operation—may be used anywhere and requires no attention after installing. Uses the standard Cunningham UX213 full wave tube—the most satisfactory on the market today and costs less than 1/10 of one per cent an hour to operate.

For 50-60 cycle, 115-125 volt alternating current. H2203—List \$42.50.
For 25-30-40 cycle, 115-125 volt alternating current. H2204—List \$45.00.

Cunningham CX-313 rectifying tube, extra. H2808—List \$6.00.

Model 10 "A" Transifier

This is the perfect filament current supply using ordinary house current.

Model 10 "A" furnishes either 2 4 or 6-volt current for operating up to eight 201A tubes or their equal, consuming not more than 2½ amperes.

The cost of operating is less than ½ cent per hour and this new type of Transifier contains nothing that requires replacement except a single standard 3¼ amp. charging bulb, which has a minimum life of 1000 hours. And as Model 10 "A" operates only when set is in use, this is equivalent to a minimum tube life of one year.

The case is finished in dark brown maroon with nickel plated handles etc.

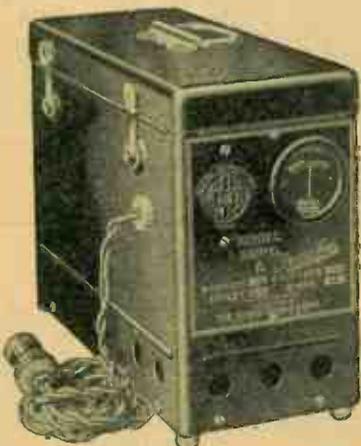
115 volt, 50-60 cycle. H2205.

List, \$42.50.

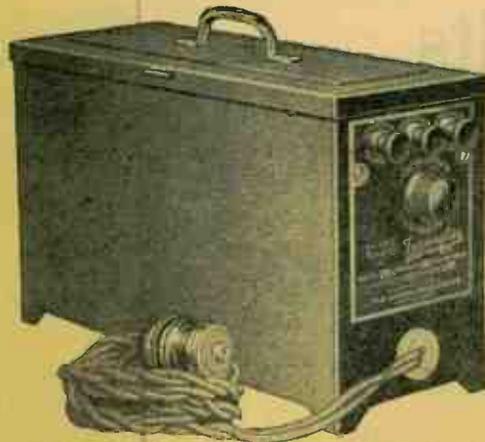
115 volt, 25-30-40 cycle. H2206.

List, \$47.50.

Standard 2½ amp. Tungar or rectigon rectifying tube, extra. H3340. List \$4.00



Model 61 "B" Transifier



After much careful research work and extensive tests Model 61 "B" was put on the market as the perfect Transifier for receiving sets using six tubes or less where the requirements call for 24 to 45 volts for the detector and a maximum of 100 volts on the amplifier.

Using the standard Cunningham UX313 full wave tube, the longest lived and most efficient tube on the market, it eliminates all the uncertainties and insures perfect operating at all times with a cost of less than 1-10 cent per hour to operate.

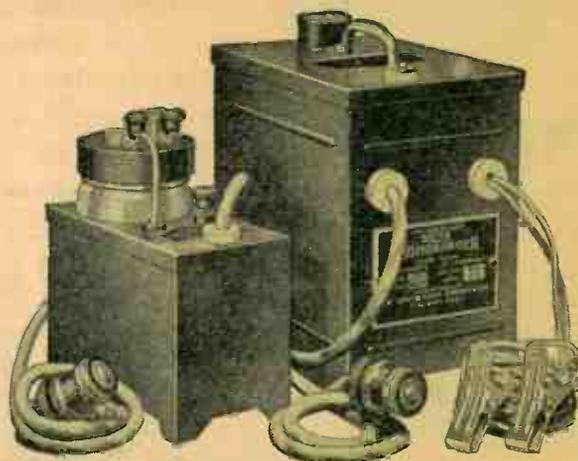
Measures 11 x 4¼ x 7¼ inches and built in a handsome pressed steel case.

For 115 volt 50-60 cycle alternating current. H2207—List \$28.50.

For 115 volt 25-30-40 cycle alternating current. H2208—List \$32.50.

Cunningham CX312 full wave rectifier tube, extra. H2808—List \$6.00.

SILITE TRICKLE CHARGER and HOMCHARGER



Silite Trickle Charger

Silite Homcharger

The Trickle Charger

There is no deterioration to the Silite Trickle Charger while standing idle and should the power fail, charging closes and when current is restored the charging restarts.

The proper charging rate is maintained regardless of battery size and overloading is impossible, thus eliminating danger of overloading charger and of fire hazard.

Furnished complete with long length cord and plug, battery terminals and enclosed in a compact pressed steel case the Silite Trickle Charger may be placed inside the finest cabinet without marring its appearance or finish.

For 116 volt, 50-60 cycle alternating current. H2209. List \$10.00.

For 116 volt, 25-30-40 cycle alternating current. H2210. List \$11.00.

Eliminate all charging worries and insure a fully charged battery at all times by using the new Silite Trickle Charger, where Silite, the new metallic gloss element is employed.

By this simple method of charging the usual worry and attention is reduced and at the same time greater power and range is noticed due to the battery being maintained at maximum voltage.

It is absolutely silent in operation, requires no adjustment and may be used while set is in operation.

Charges at .6 to .75 ampere rate (fully 50% greater than most Trickle Chargers) and may be used with either 4 or 6 volt batteries at a cost of less than 1-10 cent per hour.

The Silite Homcharger

The new silent Silite Homcharger is the last word in Silite Chargers.

Employing the new Silite metallic gloss rectifying element, it is noiseless in operation, charges at a 2¼ ampere rate, indestructible and requires no adjustment.

So perfectly does it work, that in emergencies it can be used while set is in operation without interfering with the reception.

The new Silite Homcharger is unaffected by variations in line voltage and cannot deteriorate in or out of use, neither will it overcharge, short circuit or injure the battery.

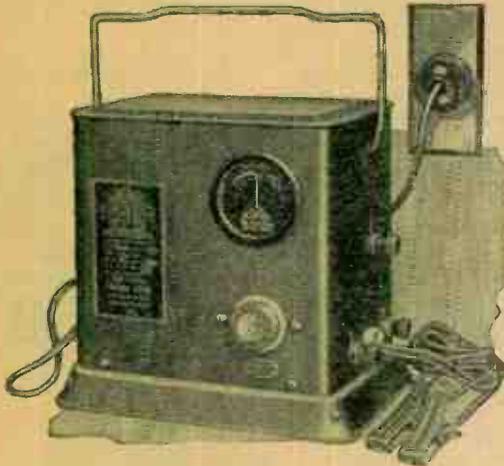
The new Silite Homcharger cannot burn out and requires no protecting fuse because it uses a specially designed transformer of the automatic self-regulating type, which insures the proper charging rate at all times.

When you consider that it requires no adjustments, contains no wearing parts, costs nothing for upkeep and charges all radio and auto batteries there is not one household that can be without the Silite Homcharger.

For 115 volt, 50-60 cycle alternating current, for charging 4 or 6-volt storage batteries. H2211—List \$19.50.

For 115 volt, 25-30-40 cycle alternating current, for charging 4 or 6-volt storage batteries. H2212—List \$21.00.

The New Triple Duty GOLD SEAL HOMCHARGER



This is truly Radio's most popular battery charger and with its many important added features it has become extremely popular in over 600,000 American homes today.

The new Triple-Duty Homcharger has two exclusive features of great importance to every radio set owner: Terminals for safely rejuvenating an entire set of tubes and tops for operating the new 210 power amplifying tubes with AC filament current.

Tubes that have lost their effectiveness through long use or excessive "B" battery current, may by merely connecting "A" battery leads from set to "rejuvenator" terminals for a few seconds and they become like new. The new AC 210 power tube (operated direct from Homcharger current) in the last amplifier stage produces double the volume at less current from the battery.

Its fast five ampere charging rate will fully charge the largest battery over night or nearly three times as fast as other chargers at a cost of five cents for consumed current.

This charger is encased in a beautiful steel cabinet complete with high grade ammeter, charging cable and clips and there is no charger on the market in which you can obtain the same value for your money as in the new Triple Duty Homcharger.

For 115 volts, 50-60 cycle alternating current. H3315—List.....\$19.50
For 115 volts, 25-30 cycles alternating current. H3315A—List.....\$21.00

Kodel Crescent

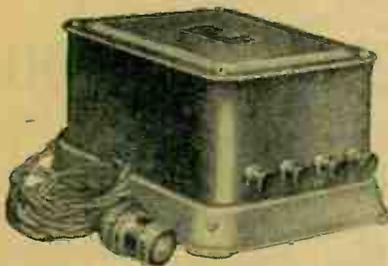
The popular Kodel Crescent Bulb Type Battery Charger is a low priced, silent and trouble-proof machine. Using a standard 2½ ampere rectifying bulb, charging 6 volt auto or radio batteries it charges at a maximum rate of 2½ amperes.

The transformer is self-regulating, and enclosed in a die pressed steel case, finished in dark brown and complete with cord, plug, charging cable and clips.

Made in 2½ ampere size only for use on 110-125 volt 50-60 cycle alternating current. Without bulb H3311—List.....\$10.00
Standard 2½ amp. Tungar charging bulb. H3340—List..... 4.00



CHARGOMETER



Because of the increasing use of battery chargers among Radio owners, there has been a demand for a simple device which would automatically disconnect a battery when fully charged thus saving current, deterioration of charger and worry.

The Radio Chargometer is a very simple automatic switch designed for this purpose. After the Chargometer is installed, it is only necessary to start the charger, all the rest is automatic.

When the voltage rises to the maximum the Chargometer automatically disconnects battery from charger and charger from supply line.

H3312—List.....\$10.00

Auto Power Switch

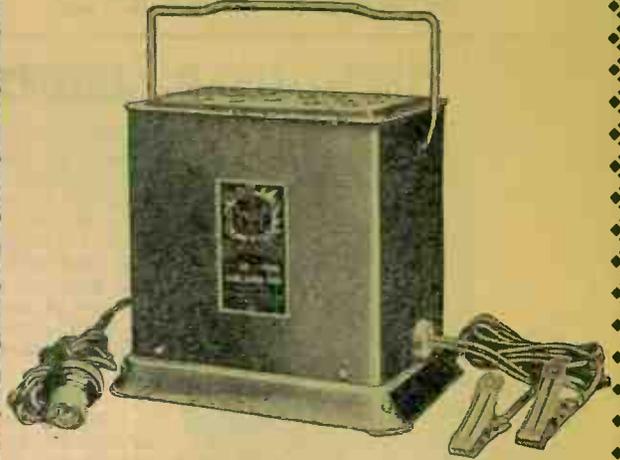
With the coming of the "A" and "B" Power Units together with the popularity of the Trickle Chargers, a great demand has risen for an inexpensive and reliable automatic control over the power devices.

There are three connections possible with this switch. The Auto-Power may be connected to control Trickle Charger, controlling Trickle Charger and "B" battery eliminator and controlling an "A" power unit and "B" battery eliminator.

Popular priced and within the reach of all radio owners.
H3313—List.....\$10.00



THE ECLIPSE 2 Ampere Size



For those wishing a silent, clean battery charger and one that requires no adjusting, contains no liquid to spill, the Eclipse charger is especially recommended.

Charges all types of radio and auto batteries safely at a minimum cost by using a standard 2½ ampere charging bulb.

The Eclipse is automatic, self-regulating and will not overheat or burn out if used on circuit of the proper frequency and voltage.

Enclosed in pressed steel case and finished in dark green and old gold.

115 volts, 50-60 cycles without bulb. H3316—List.....\$14.00
115 volts, 25-30-40 cycles without bulb. H3316-25-C—List..... 15.00
Standard 2½ amp. Tungar Charging bulb. H3340—List..... 4.00

5 AMPERE SIZE
This larger model Eclipse Charger uses two standard charging bulbs giving either 2½ or 5 ampere charging rate.

The use of double bulbs instead of a single, large one, has the advantage that if one bulb burns out, the charger may still be operated at the reduced rate.

Case finished as in the other size and with complete equipment except bulbs.

115 volts, 50-60 cycles. H3316A—List.....\$20.00
115 volts, 25-30-40 cycles. H3316-25-C—List..... 22.00
Standard 2½ amp. Tungar charging bulb, each. H3340—List..... 4.00

Midget D-C Charger

The Midget Homcharger for use on direct current of all voltages, charge both auto and radio batteries at the 2½ ampere rate. It contains nothing that will wear out or cause trouble and is quiet in operation.



Constructed of pressed steel, using wire-wound resistor units and will last indefinitely. Finished in dark brown and old gold. Complete with ammeter, cord, plug, battery cable and clips.
32-110-220 volts. H3310—List.....\$12.50

The STAR BATTERY CHARGER



Constructed of Gold Seal Homcharger parts, the Star fills it a needed place in the radio world by furnishing a simple, dependable and efficient rectifier for charging all auto and radio batteries.

Automatically tapers charging as recommended by leading battery manufacturers. Initial charging rate is 5 amperes and dropping to about 2 amperes at end of charge.

Sold complete with ammeter, cord, plug, battery cable and charging clips. Finished in dark maroon.
For 115 volt, 50-60 cycle AC current for charging 6 volt storage batteries. H3317—List.....\$14.50
Same for 25-30-40 cycle. H3317-25-C—List.....\$16.00

THE BEST IN CHARGERS FOR EVERY PURPOSE

Timmons NEW Products!

TIMMONS B-LIMINATOR WITH RAYTHEON TUBE



Designed and built for the radio set owner who believes in buying the best and who is satisfied with nothing but the finest results. The Timmons B-Liminator, built by a corporation who are leaders in the power unit field, constructed with the finest and most durable of materials, insures perfect working action from the set at all times.

Intended to furnish "B" current for any set direct from the house light socket. Operates on alternating current with voltage from 105 to 120, 50 or 60 cycles and with a current consumption of about 15 watts. Delivers 180 volts, sufficient for 10-tube set using 2 power tubes.

The actual cost of operating the Raytheon B-Liminator is about one-eighth of a cent per hour. Constructed so as to supply sufficient current for practically any standard set on the market and furnishes the high voltage necessary when using any of the power tubes. This eliminator is silent in operation and there is not even the faintest sound to betray its presence.

SOLD COMPLETE WITH NEW BH65 M. A. RAYTHEON TUBE

In buying this equipment there are no extras. You do not have to worry about liquids or other equipment. The unit comes complete with a Raytheon tube and is ready for operation. Simply plug it in the light socket, connect it to your set and you are ready to tune in and enjoy the pleasure that will be yours through the use of this standard equipment. H2213—List.....

\$47.50

TIMMONS B-LIMINATOR

The B-Liminator uses the special Timmons rectifying tube, developed in their laboratory especially for B-Liminator service. The life of a tube depends upon the size of the set with which the B-Liminator is used but with ordinary case will last two years or more. There are no other wearing parts. Using eight watts at no load and about fifteen watts at full load. At the maximum, it uses much less current than an ordinary 25 watt electric bulb.

On the outside and at the front of the B-Liminator are two control knobs to regulate, respectively, the amplifying and detector voltage. The former is variable between 1 and 120 volts and the latter between 16 and 45 volts.

For sets having an additional 67½ volt terminal for radio frequency, a special 67½ volt Timmons Resistance can be purchased at a very small cost and give excellent results.

The Timmons B-Liminator is more than a laboratory achievement. It is a tried and proved radio accessory which is already furnishing botherless "B" current to thousands. Operates on the ordinary house-lighting current of 110 volts, 60 cycles and plugs into any standard electric socket.

The popular Timmons B-Liminator is an inexhaustible "B" current and priced low enough so that its cost can soon be made back in the saving of "B" batteries. H2214—List.....

\$28.50



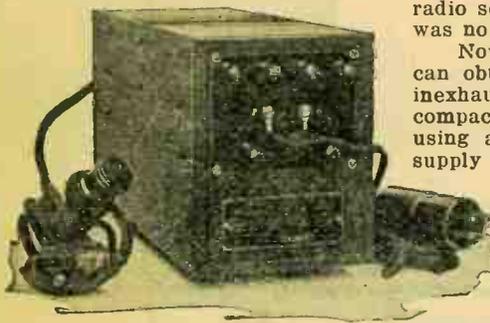
Timmons Combination "B" Supply and Power Amplifier

Only by the use of adequate power to operate the reproducing maximum efficiency can the truest, clearest reproduction of speech and music be obtained. Experts agree that at least 200 volts are necessary on the last audio frequency stage of a radio set in order to develop sufficient power for real tone quality. And until recently there was no source of supply for such high voltage that was not prohibitive in operating cost.

Now, however, from a single unit the size of an ordinary storage "A" battery, you can obtain the power that is necessary to get the perfect tone quality, together with an inexhaustible "B" voltage necessary to keep the reproduction always at the best. This compact unit plugs into the last audio socket of the set, replacing the tube you have been using and connects direct to the loud speaker. Equipped with the necessary terminals to supply the different "B" voltages required by practically any standard radio set. Enclosed in attractive metal cabinet with maroon crystal finish. Operates on 105-120 A. C. current, 50-60 cycles. Requires no acids, chemicals, distilled water or recharging.

Its two tubes made by R. C. A. and Cunningham. UX-216-B or CX-316-B, and the powerful audio tube, UX-210 or CX-310 and CX-310 Cunningham Tube. H2896—List.....\$9.00
CX316B Cunningham Tube. H2887—List..... 7.50

\$70.00



TIMMONS POWER AMPLIFIER

Tone quality, unheard of before is now available for any radio set that operates a loud speaker, by using the new Timmons Power Amplifier.

The amplifier is connected between the set and the speaker and replaces either the last audio tube or all the audio tubes, depending upon the volume desired.

To receive volume and quality, a very high "B" voltage must be used. The ordinary radio tube cannot handle the necessary volume and becomes overloaded.

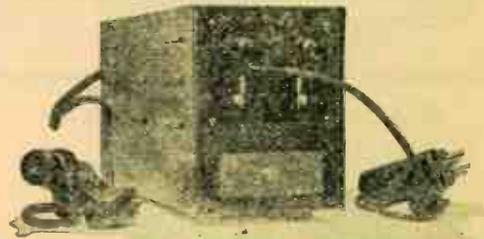
With a "B" voltage of 350 volts and using the new super-power R. C. A. tube—UX-210 (Cunningham CX-310)—which was designed to be used in the last audio stage, the Timmons Power Amplifier gives out a wonderful volume and quality and with their listed maximum of 425 volts, there is an abundant reserve capacity with no chance of being overloaded.

The total current consumption of the Amplifier is about 35 watts, making the actual cost for current to operate not more than one-third of a cent per hour!

Contained in a neat compact, black case and requires no adjusting.

To appreciate this wonderful product you must hear and compare it. The true harmony of your set has never been heard until it is hooked up to a Timmons Power Amplifier. Priced without tube. H2216—List.....

\$45.00



WE PROTECT OUR DEALERS—WRITE FOR PARTICULARS

Pacnet Powerformer

COMBINATION POWER AMPLIFIER AND "B" ELIMINATOR

Wonderful Tone—This Powerformer reproduces music and speech with a tonal quality that defies description. It is almost unbelievable that an electrical instrument can pour forth such pure, beautiful tone, from a whisper up to terrific volume, without distortion.



A Revelation in Reproduction—Reproduction is truly revolutionized. Hook this up to an old set that gives poor results, and like magic, the receiver is transformed from a mere mechanical contrivance to an instrument that gives brilliant, natural and life-like sounds.

Eliminates "B" Batteries from your set. Operates from 110 volt 60 cycle light current. Absolutely quiet in operation. Supplies up to 135 volts. Besides the elimination of "B" batteries, it furnishes A-B and C current for its own power. Reception and tuning are generally bettered because the Powerformer supplies a continual, even and never decreasing source of "B" power.

Automatic Operation—The Powerformer is simplicity itself. It is easy to attach and absolutely fool proof. There are no adjustments, no controls or meters to watch. A tumbler switch is flipped "on," a red pilot light shines, and the powerformer is at work. Size 8x8x10 inches.

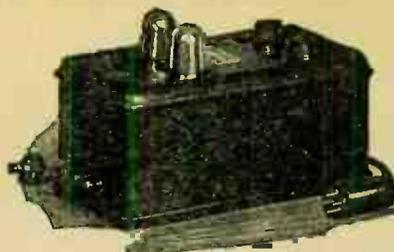
Especially recommended for use with all cone speakers, you can detune your set for quality and the powerformer will reproduce with plenty of volume to satisfy every taste.

The new Pacnet superaudioformer is used in the power unit for amplification, which is the last word in an audio transformer and the "B" eliminator side contains 20 m. m. f. instead of the usual choke coils used.

Powerformer—No. H2119—List (without tubes).....\$82.50
 Uses—1 CX316B or UX216B tube. List..... 7.50
 and 1 CX310 or UX210 tube. List..... 9.00

AERO "B" AMPLIPOWER

Combined "B" power and power amplifier using high voltage tube



Supplies "B" power for the set and in addition furnishes A, B and C power for power tube, power tube being used in the Amplipower set instead of on receiver. No special knowledge required to install and operate. Works from light socket.

The standard Aero B Amplipower is designed and built to operate with a 5-volt power tube of the 171 type which operates at 180 volts plate current (supplied by the amplipower) and a 40 "C" bias (also supplied by the amplipower).

A special model is also built for use in halls, auditoriums, etc., where greater volume is required. This uses a 7½-volt power tube of the 210 type operating at 425 volts plate current with the correct "C" bias of 35 volts.

Standard unit (without tubes). **\$65.00**
 No. H3337—List
 H3337C—Complete with tubes—List.....\$77.00
 Special unit (without tubes). **80.00**
 No. H3338—List
 H3338C—Complete with tubes—List.....\$95.00

Aero Star Type 505 Rectifier Tube

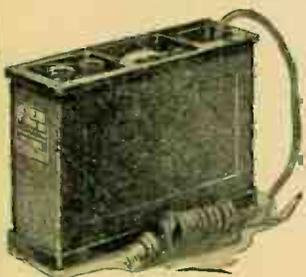
May be used as a half wave rectifier for supplying D. C. current from an alternating source. It has an exceptionally long life—and will operate at its maximum capacity consistently.

RATING

Filament volts—5.0.
 Filament Amperes—2.0.
 Maximum A. C. input voltage 440.
 Maximum D. C. load current—65 milliamperes.
 505 tube. No. H3339—
 List **\$6.00**



MODERN "B" POWER UNITS



Modern "B" Power Unit ready to operate. Complete with Raytheon tube.

This modern "B" power unit or "B" eliminator has a superior construction and many advantages that make it in a class by itself. It absolutely does not hum when in use. Listen as carefully as you may, you cannot hear even the faintest sound to betray its presence.

Three voltages may be used simultaneously. Radio frequency, detector and audio frequency. Tested at 2500 volts and housed in an attractive, moisture-proof, steel cabinet. All ready to operate. Capacity 50 milliamperes, voltage limit 150, handles up to 10 tubes, for use on 110 volt, 60-cycle current. Size 11½ inches long, 3¼ inches wide, 8½ inches high. "B" power units, complete with Raytheon tube. No. H2171—List.....

\$50.00

The Modern "B" Compact



The Modern "B" Compact or "B" eliminator is a smaller type than the Modern "B" power unit. It is designed for lighter duty and handles sets having up to six tubes including one power tube at 135 volts. Variable detector control. Noiseless and efficient. Fully guaranteed. Cost of operation, about 1-10 cent per hour. By far the least expensive "B" eliminator on the market. A splendid value that will give many years of dependable service.

Modern "B" compact, complete with Raytheon tube. No. H2168. **\$30.00**
 List

THE NEW MODERN SYMPHONY TRANSFORMER



Replace the ordinary type with this new Symphonic Transformer. The result is startling. The effect is as if a "fourth dimension" has been added to the music. Careful testing and construction insure uniform results. The case is finished in a beautiful mottled effect, which is in perfect harmony with the excellent construction of the exterior. There has been no scrimping of material at any point. All transformers tested at 500 volts for breakdown.

Modern Symphonic Transformer. No. H1272—
 List **\$6.00**

MAYOLIAN "B" SUPPLY

The Mayolian assures any radio set, no matter what make, and under any and all conditions, a continuous, uniform, and noiseless "B" supply direct from the light socket, eliminating all "B" batteries and the consequent trouble and expense of recharging them.

The Mayolian is equipped with three separate and variable voltage taps; one for the detector tube, one for the radio frequency tubes, and one for the audio frequency tubes. When these taps are adjusted to your set, the Mayolian requires no further attention. Will deliver up to 180 volts. Type 609—A. C. 110 volts, 60 cycle, complete with tube. No. H2218—**\$55.00**
List
Type 607—D. C., 110 volts, complete. No. H2219—List... **\$25.00**



BALKITE TRICKLE CHARGER—Model K

For "A" batteries, charges at .5 amperes. Trickle charger for 6-volt "A" battery. As intermittent charger on 4-volt battery. Works from 110-120 A. C. current. Models for both 60 and 50 cycles. Model K—**\$10.00**
H3301—List.....



BALKITE CHARGER—Model J
Charges 4 or 6-volt "A" batteries. Has two charging rates: trickle charging and high power quick charge. Noiseless, can be used while set is in operation. Models for 60 and 50, also 25-40 cycles. Model J—**\$19.50**
H3302—List.....

ACME TRICKLE CHARGER

Uses a 2-ampere Tungar bulb. Delivers 1/2 to 3/4 ampere and consumes 25 to 40 watts. A. C. Acme Trickle Charger with extension cord attachment. Type AT-1. Price without bulb. No. H3346—
List\$6.00
2-Amp. Tungar Bulb. H3340—List.. 4.00



Two Ampere ACME JUNIOR Charger

Charges both "A" and auto batteries. Type A-2 (without bulb). No. H3347
—List\$8.50
2-Amp. Tungar Bulb. H3340
—List\$4.00



Type AB-2 Charger. Charges A and B batteries. Charges 48 cell B batteries in series without grouping. No. H3348—
List\$10.50
2-Ampere Tungar Bulb. No. H3340—List..... 4.00

Acme Radio Control Switch

This Acme control switch may be used with any set, regardless of the type of A Power Unit, Trickle Charger or B Eliminator, that is in use with the set. When the set is turned on, the Trickle Charger automatically disconnects itself from the A battery, and the B Power Unit is connected to the set; now when the set is turned off, the Trickle Charger is connected to the storage battery and will immediately start charging the A battery, and also the B Eliminator is disconnected from the set and the line. Control switch No. H3349—List\$5.00



Balkite Combination Radio Power Unit

For perfect radio reception it is absolutely necessary that both the "A" and "B" currents be working perfectly at the maximum. It is impossible to keep batteries always at the maximum, and so it is impossible to always receive the best.

As the combination Power Unit furnishes power for both the "A" and "B" is controlled by the filament switch on the set, and when once connected to the battery and set and to the light socket, the owner is insured that the set will at any time operate at maximum efficiency.

A few minutes only are necessary to install this unit and it may be placed where convenient, as the power unit will operate with equal success either far from or near the set.

No bulbs—nothing to wear out, break or repair.

The Balkite Combination may be used with any set now using either a 4 or 6-volt "A" battery and requiring not more than 30 milliamperes of "B" current at 135 volts. As this covers practically all sets up to 8 tubes, it fills the needs of 95 per cent of radio owners and gives to them a combination power unit at an exceptionally low price.

Operates from 110-120-volt AC current. Models for both 60 and 50 cycles. Model KX—H3303—List..... **\$59.50**



Balkite Model "B"-Y

This practical current supply eliminates the use of the old undependable dry or wet "B" batteries that require recharging or replacing constantly.

This universal unit has an exceedingly large output and will serve practically all of the sets on the market, including the largest. It is especially designed to be used with sets operating the new UX112 and UX171 power tubes. It will fill the needs of very large sets where volume and tone are essential.

It has sufficient power for hall use, but is also provided with intermediate taps for small sets.

Because of its exceptionally low resistance, it operates well over the entire range. Output rating, 40 milliamperes at 150 volts, at 115 line volts. **\$69.00**
Model Y—H3304—List.....



Balkite Model "B"-W

This new and popular model is made especially for sets using 5 tubes or less and requiring from 67 to 90 volts. Operating direct from the house current, it eliminates the fuss and worry of batteries and operates either storage or dry cell tubes with equally fine results.

No additions or changes required other than adding water every year.

The current consumption is very low, operating at a cost of 1-10 of 1 cent per hour. Occupies about the same space as 45-volt "B" battery. Tested and listed by Underwriters' Laboratories.

Model W—H3306—**\$27.50**
List



Balkite Model "B"-X

This model will give wonderful radio reception on sets using 5 to 8 tubes or less (including power tubes) and where 90 to 135 volts are desired. Built into the set are intermediate and detector taps to give proper outputs for the various circuits. The output rating is 30 milliamperes at 135 volts at 115 line volts.

This practical eliminator is indestructible and cannot deteriorate with the proper use. The adding of distilled water about once a year is all the attention required on Model X and the current consumption is very low, the average cost of current being 1-10 of 1 cent per hour.

This eliminator always carries the same amount of current—just like changing to new batteries every day. **\$42.00**
Model X—H3307—
List



TUNGAR BATTERY CHARGERS



The two-ampere size will charge any battery just as completely as the five-ampere size. However, more time is required. The five-ampere size is designed to charge the larger radio and auto batteries. It will meet the most exacting requirements. In an emergency the two-ampere Tungar can be used to charge the "A" battery while receiving. The most complete and up-to-date charger on the market. They are safe, quiet and dependable. More than 500,000 are now in use. Made by General Electric.

- Two ampere size 60-cycle—115 A. C. volts. No. H3335—List \$18.00
- Five ampere size, 60-cycle—115 A. C. volts. No. H3336—List 28.00
- Tungar bulbs. 2 ampere. No. H3340—List 4.00
- 5 ampere. No. H3341—List 8.00

Tungar Trickle Charger

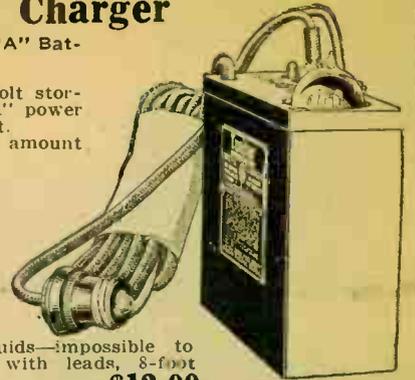
For 4 or 6-Volt Storage "A" Batteries.

When used with 4 or 6-volt storage "A" battery, acts as "A" power supply from lighting circuit.

Delivers continuous small amount of current sufficient to replace current used by set.

Will meet requirements on 8-tube sets when not used over 4 hours a day. Has special charging rate from one-tenth ampere to a boosting current of one-half ampere and regulated by four taps.

Contains no acids or fluids—impossible to blow out tubes. Complete with leads, 8-foot cord and bulb. H3334—List \$12.00



Trickle Charger Automatic Switch



This device fills a long felt need. It automatically turns off the trickle charger when the set is turned on, and turns on the charger when the set is turned off. It absolutely does not use any current. There is no hum due to charging as the charger is switched off when the set is on. Lowers the rate of water consumption in the liquid type of charger. Recommended for use with storage battery sets of from three to six tubes. This automatic control makes the trickle charger the best answer to the "A" battery problem. The demand was instant, and the large number of these Automatic Switches now in use is the best recommendation.

Automatic Switch No. H2188—List \$1.50

"Takes the worry out of Radio"

POWERIZER

COMBINED POWER AMPLIFIER and "B" ELIMINATOR



Operates on 60 cycle 110 volt electric current and acts both as "B" eliminator and power amplifier on any set. Takes weak signals from set and amplifies them to tremendous volume, if desired, without distortion. Supplies up to 135 volts "B" current. Employs 216-B or 316-B rectifier tubes and 210 or 310 tubes for amplification.

Model P1—Designed for set having no phone jack or 1st stage audio switch. Without tubes. H2151—List \$49.50

Model P2—Designed for one, two, or three tube sets. Without tubes. H2152—List 49.50

Adapter for 201A, UX199 or UV199 furnished. Specify which.

NEW HANDY CHARGERS

THE HANDY SIMULTANEOUS CHARGER

Charges both "A" and "B" storage batteries at the same time. This charger gives a combination never before obtained in a battery charger. Two separate control switches allows for the charging of "A" and "B" batteries at the same time or individually, as desired.

Charges "B" batteries at any desired rate.

Connect the charger to batteries permanently and when the batteries become low, simply turn on A. C. switch. Requires no more attention than the stationary parts of the set. Operates absolutely quiet. By using once a week both batteries will be kept to maximum. Complete with bulbs.

110-volt, 50 or 60-cycle. \$28

H3323—List \$30

110-volt, 25, 30 and 40 cycle. H3324—List



New Double Duty Trickle-Booster Charger

Instantly changes from continuous slow rate charger to fast rate booster by merely throwing the switch arranged on the panel.

In normal use the switch is thrown to the "low" side and a smooth, quiet charging rate of 1/2 ampere flows to the battery. If a fast rate is necessary for a weakened battery, the switch is thrown to the high side and a 2 to 2 1/2 ampere rate quickly restores the battery.

This handy Trickle Booster Charger converts your present battery into an up-to-date "A" power unit.

By using the long life 2-ampere bulb there is an assurance of the right charging rate over a long period of time.

May be placed in cabinet with battery. Finished in rich Duco Brewster green, all metal case.



Simply connect this combination charger to the two battery cables as shown in cut. The Handy Trickle-Booster Charger gives the radio fan two chargers in one unit at a lower price than the standard battery charger. Complete with bulb.

110-volt, 50 or 60 cycle. \$14

H3321—List \$16

110-volt, 25, 30 or 40 cycle. H3322—List



NEW TWIN-BULB HANDY CHARGER

It charges without the slightest noise, and cannot overcharge or discharge your battery. A very economical and fast rate of charging is assured by the advanced "pushed-pull" principle that uses both halves of the AC wave at a speed of from 4 to 5 amperes. Adapted to "A" batteries of from 2 to 12 volts; "B" batteries from 24 to 120 volts in series. No extra attachments necessary. It charges them all. It is easy to use and practically trouble proof.

In the event one bulb burns out, the user still has the other for charging purposes.

Priced Without Bulbs. \$17.

110-volt, 50 or 60 cycle. H3327—List

110-volt, 25, 30 or 40 cycles. 20.

H3328—List

Tungar Bulbs extra. Each 4.

H3340—List

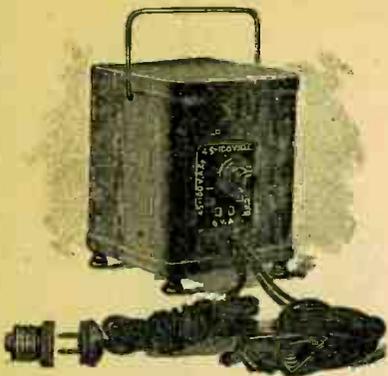


American Semi-Monthly Catalogue Will Carry Many New Items, Look For Them

Duplex Battery Charger

The Duplex Charger was designed and built to render complete satisfaction and service at a minimum cost so as to enable every battery user to own one. This charger will renew life in Auto and Radio "A" batteries and "B" batteries as well. It is of the silent non-vibrating type and is fully guaranteed to give unequalled service over an indefinite period. A real charger at a low price. 110v. 60 cycle A. C. H3320—List Price.. **6.50**

Less bulb.
Genuine Tungar Bulb.
H3340—List Price..... **\$4.00**



Majestic B-Eliminators

There are many advantages of this B power unit. It is easy to install and operate. Costs but 1-10 cent per hour to run. Voltage can be regulated. Gives constant and uniform power. Absolutely no hum.

Majestic Super-B—capacity 1 to 12 tubes.—No. H2178—List **\$35.00**
Standard-B—capacity 1 to 6 tubes—No. H2179—List **32.50**
Master-B for Supers and extra heavy drain sets. H2179M—List **\$42.50**
Prices Complete With Raytheon Tubes.



NOISELESS BATTERY CHARGER

This is the best and most reliable product of its kind on the market for a low price. No fancy case, but all parts are of good, substantial materials, built for long, satisfactory service. Quickly pays for itself in saving of charging costs at service stations. Charger consists of specially wound transformer, socket block and fuse. Simply connect to light socket and attach terminals to battery. Operates on 110-volt, 60-cycle, alternating current. Charges at 2-ampere rate. A big seller to automobile owners, also.

Many dealers have built up a nice, profitable charging business with just one of these simple chargers. Look in the next battery charging shop you pass and you probably will see one in operation. Battery Charger complete—less bulb. No. H3305—List **\$9.50**
2-amp. Tungar bulb. No. H3340—List **4.00**



American Battery Cable



American vari-colored terminal cords for making all battery connections. Extra heavy duty for any voltage. All cables 6 feet long, complete with spade terminals as shown. Six and seven wire cables made especially for sets using power tubes.

5 wire cable. No. H686—List **\$0.80**
6 wire cable. No. H687—List **1.00**
7 wire cable. No. H688—List **1.20**
5 wire cable (without spade tips). No. H796—List **.50**



AERO B

"B" POWER UNIT

"NOISLESS"

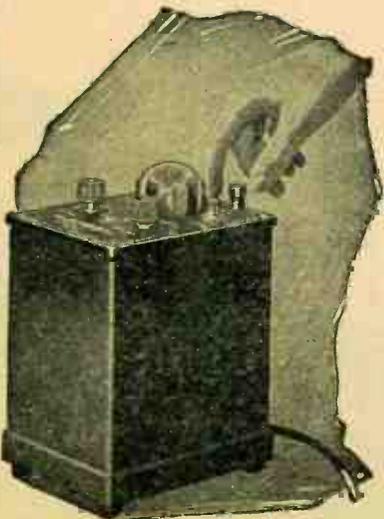
Aero B is a perfected tube rectifying "B" Power Unit that operates on ALL types of tube sets. It delivers a full plate ("B") current by plugging into the home lighting circuit. Aero B is never run down—plate voltage is always at the maximum to assure the best possible reception of which the set is capable. Once adjusted it requires no further adjustment or attention. A simple finger switch on the panel turns the "B" current on and off.

Amplifier adjustment is by means of a knob on the panel, permitting adjustment to 30 volts, 135 volts and 150 volts. 135 volts and 150 volts at 50 milliamperes, sufficient for any up to a ten-tube set. Detector voltage is also adjusted by a panel knob and can be varied from 0 to 75 volts.

Aero B is noted for maintaining the tonal quality of any radio set at its very best, as well as furnishing an absolutely dependable, unvarying, inexpensive "B" current.

Measures 4 1/4 x 5 1/2 x 8 3/4, has a handsome black crackle finish case and a neat, simple and well arranged panel.

Aero B "B" Power Unit. H2201—List **\$44.00**
Aero Star Tube, for use in Aero B. H2857—List **6.00**



Made by the builders of the famous radio equipped Glen L. Martin Aircraft used by the United States Army.

EAGLE CHARGERS

For Every Radio Purpose

Eagle Trickle

An exclusive Trickler feature—charges "B" batteries as well as "A." A complete power unit for the price of ordinary Trickle chargers. Shipped dry. No liquid or chemicals needed. Just add plain water.

Particularly adaptable for the new TAB Rechargeable Dry "B" Batteries.

Charges "A" batteries at 1/2 amp. rate—"B" batteries at 250 milliamperes. H3356—Complete.

List **\$10.00**



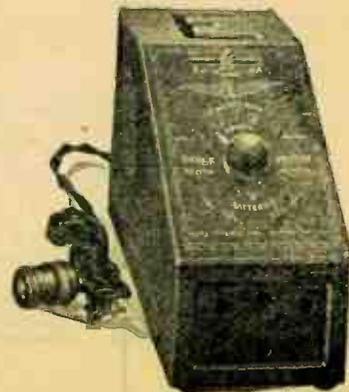
Eagle Master

The charger of the future—a complete unit. Charges "A" batteries full or trickle. Charges "B" batteries of all standard voltages. Can be connected with all batteries; not necessary to disconnect any wires—from set or batteries. The Master is automatic. Simply point the arrows and throw the switch. All connections in the rear.

No variable resistances, such as lamps or coils—entirely automatic and particularly adapted for the new TAB "B" Rechargeable "B" Batteries.

Charging rate for "A"'s trickle to 2 amp. For "B"'s 45 to 135 volts.

H3357—without tube—List **\$21.00**
H3340—Tungar tube extra—List **4.00**



AMERICAN "A" STORAGE BATTERIES

The Best of All for Good Radio Reception

Heavy duty with continued long life. Holds its charge because of slow discharge rate



AMERICAN BATTERIES

The finest of all for radio reception. Designed especially for use with receiving sets, they have unusually long life. Thousands have been in use for several years and will undoubtedly continue to give good service for a long time to come with the proper care.

HEAVY PLATES

One of the reason for the long life of American Batteries is the exceptionally heavy plates. They are so constructed and arranged to give an even, steady flow of current to the tube filaments. A constant flow, such as this, is essential to good reception.

LONG LIFE

We know that American Batteries, with reasonable care, will give years and years of faithful service. Here is a good point to remember in battery care: Never let your battery become fully discharged. Of course, Americans can be brought back to full charge without any apparent effects, but eventually this continued complete discharging will shorten the life, even of a sturdy American.

RUBBER CASE

These batteries are contained in a heavy, hard rubber case. The case is equipped with a convenient handle which makes them easily portable. They can be moved without fear of spilling acid and without ruining your clothes. Acid will never leak through any part of this case.

YOU CAN'T BUY A BETTER BATTERY

Nowhere, and at any price, than the American. All parts are made of the sturdiest and best materials obtainable. Built to the highest standard of rigid specifications.

| | | |
|---------------------------|---------------------------|---------|
| 80 amp. hour, 9 plates. | Stock No. H1605—List..... | \$18.00 |
| 100 amp. hour, 11 plates. | Stock No. H1606—List..... | 20.00 |
| 120 amp. hour, 13 plates. | Stock No. H1607—List..... | 22.00 |
| 160 amp. hour, 17 plates. | Stock No. H1608—List..... | 23.50 |



Exide Batteries

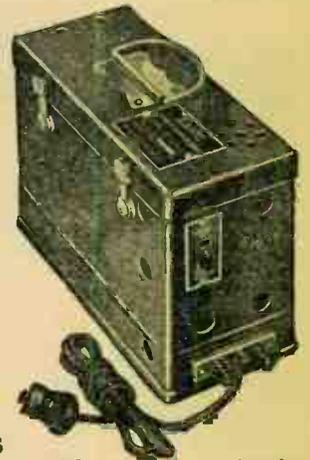
And "A" Power Units



The original storage battery manufacturers making radio batteries. For years before the advent of radio, Exide Batteries were used on ships sailing the seven seas for maintaining wireless equipment demanding highest quality and maximum efficiency.

Exide storage batteries are shipped fully charged and crated to protect from possible damage. No fussing with distilled water and acids. Construction scientifically correct. Only the best of materials used. Built for heavy duty and long service. These batteries listed made especially for radio service.

Comparison will prove to you that our prices on these famous batteries are exceedingly low.



"A" STORAGE BATTERIES—6 VOLTS

| Type | Volts | Capacity Amp Hrs. | Stock No. | Price, Each |
|---------------|-------|----------------------|-----------|----------------|
| 3-LXL-5-1 | 6 | 50 | H3460 | \$12.30 |
| 3-LXL-7-1 | 6 | 75 | H3461 | 14.55 |
| 3-LXL-9-1 | 6 | 100 | H3462 | 17.65 |
| 3-LXL-11-1 | 6 | 125 | H3463 | 20.60 |
| 3-LXL-13-1 | 6 | 150 | H3464 | 23.90 |
| 4-VOLT | | | | |
| 2-KZR-3 | 4 | 12 | H3465 | 6.00 |
| 2-LXL-5-1 | 4 | 50 | H3466 | 9.85 |
| 2-VOLT | | | | |
| 1-KZR-5 | 2 | 24 | H3467 | 4.90 |
| 1-LXL-9 | 2 | 100 | H3468 | 7.50 |

"B" BATTERIES

Very popular among radio users. Ends the expense of continually buying "B" batteries. Can be recharged easily with your own charger or at a service charger. Good for years of the best kind of service.



| Type | Volts | Capacity Milli-Amp. Hrs. | Stock No. | Price, Each |
|---------|-------|--------------------------------|--------------|----------------|
| 12-LR-2 | 24 | 6000 | H3469 | \$ 9.75 |
| 24-LR-2 | 48 | 6000 | H3470 | 17.10 |

"A" POWER UNITS

A new "A" power unit, tube type, with ample capacity for any receiver, from one to ten tubes. No moving parts to get out of order. Operates off 110-volt 60-cycle light current. Needs distilled water but once a year.

| Model | Volts | Approx. Amp Hrs. | Stock No. | List |
|------------------------|-------|---------------------|-----------|---------|
| Model 2A | 4 | 38 | H2183 | \$27.00 |
| Model 3A | 4 | 50 | H2181 | 28.00 |
| Model 2A | 6 | 38 | H2184 | 36.00 |
| Model 3A | 6 | 50 | H2182 | 38.00 |
| Master Control Switch, | | | H2144 | 4.50 |

(Prices complete with Tungar Tube.)

RECTIFIER

A compact and efficient rectifier, designed for use in the home charging of Radio "B" batteries from the usual 110-120 volt A. C. lighting circuit. Saves time and money and is very popular.

The operation is very simple. Anyone can hook it up and turn on the current. Nothing more to do. Recharges to full capacity. Reception is always better when your batteries are up. Every owner of storage "B" batteries should have one. Rectifier, \$2.40



TRY US ON RUSH ORDERS

GUARANTEED "B" and "C" BATTERIES

RAY-O-VAC-BURGESS-EVEREADY DRY CELL BATTERIES

Perfect reception is possible only when the best of "B" and "C" batteries are used. Ray-O-Vac, Eveready and Burgess are nationally known brands; they are truly the best that it is possible to produce and are fully guaranteed to give entire satisfaction. The country's leaders—there is none better.

The New Style RAY-O-VAC

Entirely new in internal construction. Eliminates internal resistance. Lighter in weight. Built so that accidental blows received in shipping does not cause hidden defects which some time shorten the life of batteries.

By a new and special method of construction, the French Battery Co., makers of the famous Ray-O-Vac, has lightened their battery and made it generally more durable. Lower transportation charges are possible.



No. 1211
H3510



No. 1211
H3510



No. 1153
H3502



No. 2153—H3504

No. 2301—A 45-volt "B" battery. Will give long dependable service on any set. Variable taps giving voltage adjustment at 16½, 18, 19½, 21, 22½ and 45 volts. Has screw post terminals. **\$3.75**
H3505—List Price

No. 1153—This is a 22½-volt vertical type "B" battery of medium size. Screw terminal connections. H3502—**\$1.75**
List Price

No. 4151—A small 22-volt "B" battery for use in portable sets. Has screw post terminals. H3500—List Price **\$1.50**

No. 5151BP—For portables. 22½-volt, one flexible lead. H3501A—**\$1.75**
List

No. 261R—New 9-volt "C" battery for use with the new **\$1.20**
power tubes. H3515—List

No. 551—7½-volt "C" battery for Super-Hetrodyne receivers. H3516—List **.85**

No. 531R—4½-volt "C" battery, small size. H3517—**.40**
List

No. 2153—This is a vertical type 22½-volt "B" battery of the same capacity as No. 2151. It also has screw terminals. **\$2.00**
H3504—List Price

No. 1211—Dry cells. This dry cell battery is 1½-volt capacity. Test from 30 to 35 ampere capacity. A very efficient battery. **\$.50**
No. H3510—Price

No. 2151—This is a large 22½-volt "B" battery with screw terminals. No. 3503—List **\$2.00**

No. 9303 45-volt upright battery with twice the normal capacity of smaller type 45-volt battery. This insures a capacity of nearly five times as great as other types. Screw terminals. Weight 10¾ lbs. Weight of former battery, old style, 13¾ lbs. **\$5.00**
No. H3508—List Price

No. 2303—A new vertical type of battery built from 30 cells giving 45 volts with one intermediate voltage tap at 22M volts. Has screw post terminals. **\$3.75**
No. H3506—List Price

No. 5151—Medium size 22½-volt "B" battery with screw post terminals. No. H3501—**\$1.90**
List Price

No. 231R—"C" battery, 4½ volts. H3509—**\$.60**
List

EVEREADY

45-volt "B". New layer built. Heavy duty. No. 486. H3569—List **\$5.50**

45-volt "B". Extra large. Heavy duty. Use on multi-tube sets and power amplifiers. Vertical. No. 770. H3566—List **4.75**

45-volt "B". Spring clip connections at 16½ to 22½ volts in 1½-volt steps. Use with amplifier or detector tubes. No. 767. H3564—List **3.75**

45-volt "B". Fits in cabinets of self-contained receivers. Vertical type. No. 772. H3565—List **3.75**

22½-volt "B". Connectors give variable voltage from 16½ to 22½ in 1½-volt steps. Vertical type. No. 766. H3563—List **2.00**

22½-volt "B". Medium. Use where space is limited. Vertical. No. 764. H3562—List **1.75**

22½-volt "B". Recommended for 1-tube sets. Small horizontal type. No. 763. H3560—List **1.50**

22½-volt "B". Use with portable sets. Medium. No. 768. H3561—List **1.75**

4½-volt "C". Prolongs life of "B" batteries and improves reproduction. No. 771. H3567—List **.60**



No. 4151—H3500



No. 2151—H3503



No. 5151BP—H3501A

BURGESS

No. 2306—45-volt. Large. H3528—List **\$4.00**

No. 2308—45-volt. Large. Vertical type. H3529—List **4.00**

No. 5308. Medium. Vertical. H3527—List **3.25**

No. 5156—22½-volt. Portable. H3523—List **1.75**

No. 4156—22½-volt. Medium. H3522—List **1.50**

No. 5158—22½-volt. Medium. Vertical type. H3524—List **1.75**

No. 2158—22½-volt. Extra large. Vertical type. H3525—List **2.00**

No. 2156—22½-volt. Extra large. H3526—List **2.00**

No. 5540—7½-volt "C". Medium. H3531—List **.85**

No. 2370—4½-volt. "C". Medium. H3530—List **.60**

No. 5360—4½-volt "C". Small. H3532—List **.40**

No. 6—1½-volt. Single dry cell "A" battery. H3521—List **.50**



No. 231R—H3509



No. 23J1—H3505



No. 772—H3565



No. 9303—H3508



No. 2303—H3506



No. 2308—H3529

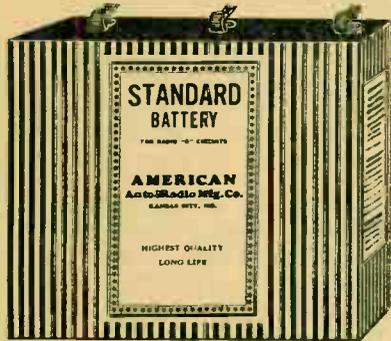
ALL TYPES AND MAKES OF "B" BATTERIES CARRIED IN STOCK

Standard "B" Batteries

TWO SIZES, BOTH 45 VOLTS

The American Standard "B" battery is known the country over for its long lasting qualities, and is a favorite among radio fans who know and insist upon service.

We wish to remind our dealers that they are selling a strictly high quality product when they sell the Standard battery. They are not in any sense offered as "substitutes" for other batteries, but are a mighty fine piece of merchandise in their own right and are sold to your customers as such.



A big, powerful "B" battery, with extra size cells, made for heavy duty on multi-tube sets. Will give far more service than the average size battery, and is

correspondingly economical to operate. In lasting qualities, this battery is unsurpassed by any battery of its size at anything near its price. Cover is waterproofed, heavy composition. The individual cells are sheathed in best quality zinc and filled with fresh, "hot" electrolyte. Each cell carefully insulated from every other. Regular

large size, 45-volt. H3551—List... **\$4.00**

Extra heavy double duty 45-volt size. H3555—List... **\$5.00**

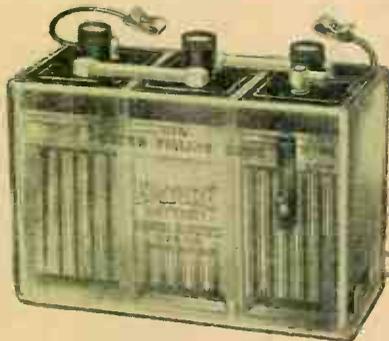


EMPIRE Storage "A" Batteries

Designed for Continuous Trickle Charging

Unusually long life and reliability in service

Embodies many new features



Designed to withstand continuous trickle charging with a minimum of solution loss through gassing. Has oil space to further reduce evaporation. Colored float ball indicators show at all times the state of charge. Requires less attention and will give longer and better service than probably any other battery.

MODEL G635

6-volt Radio "A" Glass Container Trickle Charge Battery, 12 plates—4 1/4 x 2 7/8 inches. Capacity 35 ampere hours at 1 ampere discharge rate. Dimensions over all, 8 5/8 in. high, 9 5/8 in. long, 4 1/2 in. wide. Weight, net, 26 lbs. Gross. No. H3352—List... **\$12.50**

MODEL G415

4-volt Radio "A" Glass Container Trickle Charge Battery, 6 plates—4 1/4 x 2 7/8 inches. Capacity 15 ampere hours at 1 ampere discharge rate. Dimensions over all, 8 5/8 in. high, 7 3/8 in. long, 2 5/8 in. wide. Weight, net, 17 lbs. Gross. No. H3353—List... **\$7.50**

Shipped Fully Charged and Ready for Use.

AMERICAN STORAGE "B" BATTERY



STOP the endless buying of "B" dry cells. Use this American oversize storage "B" battery

Low First Cost — Recharges Cheaply And Quickly

End once and for all the heavy expense of continually buying "B" batteries. With this storage or wet cell "B" you have no expense except for recharging which you can do at practically no cost with your own charger or for a small fee at a dealers.

charge while idle at constant voltage. Fully guaranteed.

This superior battery is made by experts of extra heavy plates with plenty of acid circulation. Extra heavy glass jars permit easy observation of the charge and at the same time prevent leakage and seepage of current. Holds the

This will be a big season for Storage "B" batteries and you cannot offer your customers a better battery, regardless of price, than this American "B". Equip all your new sets with Storage "B" Batteries and you will be doing your customers a big favor and at the same time making a fine profit on this quality product. 24-volt 6000 milliamper capacity.



American Storage "B". No. H3430—List

\$7.00

VALLEY Battery Chargers

ABC Type—Charges Battery Overnight

The Valley Type A. B. C Battery Charger has high efficiency, charging a 6 volt battery at a 6 ampere rate or a 12 volt battery at a 3 ampere rate. It is simple and easy to operate and is equipped with an accurate ammeter, showing the charging rate at all times. The charger is furnished complete with cord and plug, battery leads and clips. Plugs in on light socket—charges your battery over night. Trouble proof. Used by many railroads. Size 6"x6 1/2"x7 1/2" high. Charger, 110v, 50 and 60 cycle. No. H3325—List... \$19.50



Charger, 110v, 25, 30 and 40 cycle. No. H3326—List... 21.00

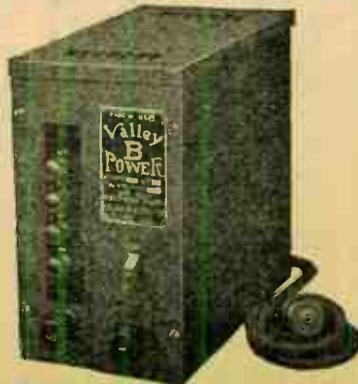
TBC Tube Type—Battery Charger

Absolutely noiseless and trouble proof. Charges at the rate of 2 1/2 to 5 amperes. Uses one or two tubes, one tube for 2 1/2 amperes. Additional extra capacity if a more rapid charging rate is desired. Does not have any moving parts. Comes complete with cord, plug, ammeter, battery leads and clips. Prices without tubes. Charger, 110v 50 and 60 cycle. No. H3365—List... \$15.00
Charger, 110v, 25, 30 and 40 cycle. No. H3366—List... 16.00
Rectigon tubes, each, No. H3340—List 4.00



"B" Power Units

The Valley "B" Power Unit furnishes dependable smooth power plate supply. It is absolutely silent, without hum, distortion or vibration. It operates from the lamp socket. Once connected it requires no further attention. There is never a drop in voltage; signals are always strong and clear.

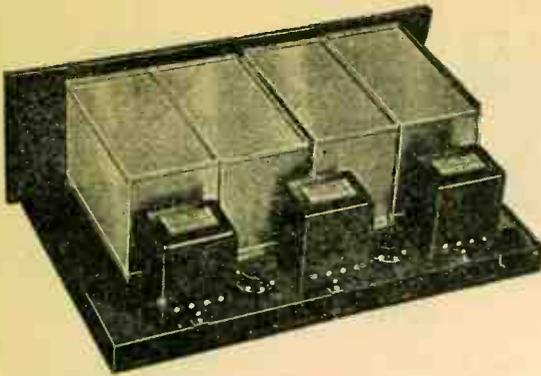


Under the lid two sockets are marked "high" and "low." The low tap is used for five tube sets. The high for larger sets or for receivers using the power tube in the last stage of audio. Size 5 1/2"x9 3/4"x10 1/2". "B" power unit, 110v, 60 cycle. Price complete with Raytheon tube. No. H3367—List... **\$40.00**

WE OFFER NOTHING BUT SALABLE MERCHANDISE AT THE RIGHT PRICE

SILVER SHIELDED SIX

A Marked Contribution To Radio Reception



THE Silver Shielded Six is one of the highest types of broadcast receivers ever developed, and is the result of painstaking engineering work over a period of years. The circuit employed consists of three stages of tuned radio frequency amplification, a detector and

two stages of audio amplification.

Tunes easily by 2 vernier dials, third dial controlling volume. No fussy or tricky adjustments. The operation is simple, positive and sure. Wonderful tone quality. Gets up to two thousand miles on 20 to 30 foot antenna.

Very simple to assemble. Anyone can do it. All metal parts pierced, making wrong mountings impossible. Can be wired with or without soldering. Complete and simplified instructions and photos with every set. Takes very little time to have set in perfect operation. You can then tune through local interference, getting greater distance and better quality than most of your neighbors, even though they possess ultra-expensive outfits.

Wonderful reception with real long distance tuning, unusual clarity and reproduction without distortion is claimed. The operation will prove these claims and show many more advantages of this outfit. There is a reason for these claims, the same reason that causes the set to prove them in actual operation.

The circuit employed, as well as the parts used, are all made by Silver-Marshall. The careful balancing, matching and shielding of these parts produce the unusual results. Each part used is the product of continued experiments and works to highest efficiency as a part of the complete unit. Although of advanced design, and far ahead of many well known parts, these parts are not just a present experiment, but have, and continue to prove their extraordinary merit.

Buy a Silver Shielded Six, put it in operation easily and quickly. Have a real receiver.

Front panel of walnut bronze. Size 7x21 inches. Type 630 Silver Shielded Six. Complete parts including detailed instruction and photos with each kit. H2673—List

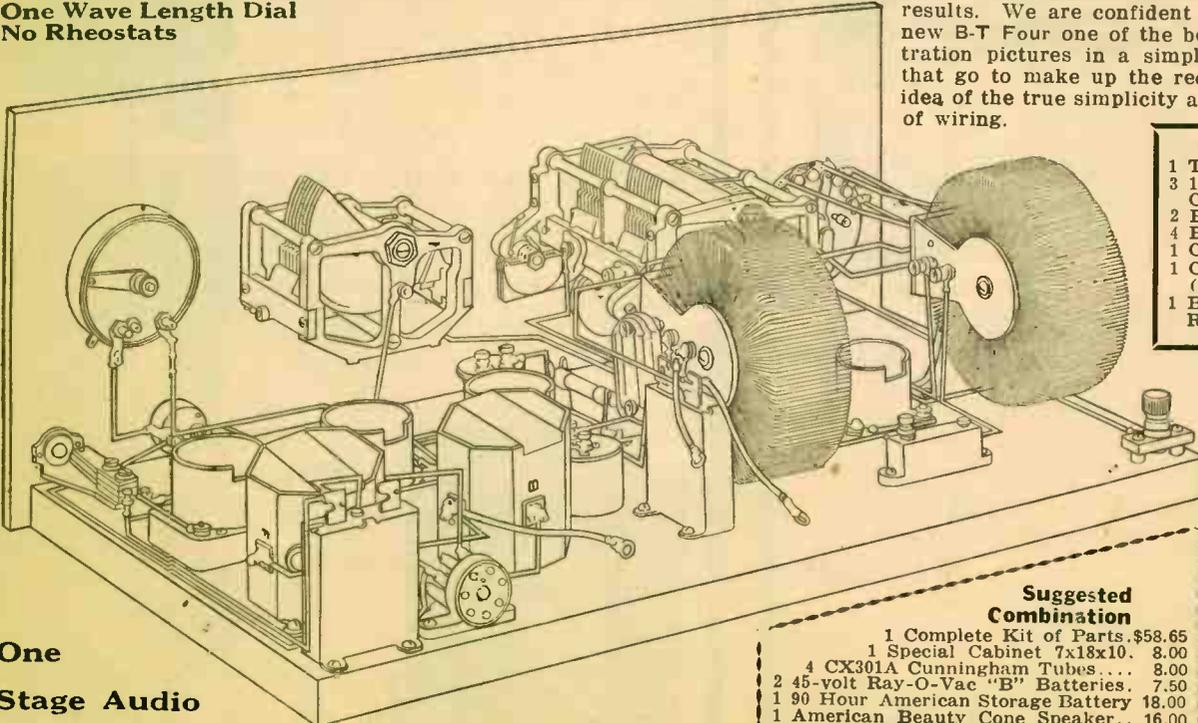
ESSENTIAL KIT
Buy this kit and build up a Silver Shielded Six. Kit contains four matched condensers, four matched radio frequency transformers four coil sockets, four stage shields, a link motion and an instruction booklet. The same high standard of matching of coils and condensers as in the 630 kit. Type 633. Kit H2674—List..... **\$45.00**

\$95.00

THE NEW 4-TUBE "B-T-FOUR"

This is the receiver that was described in "Radio Age". The circuit employs the Bremer-Tully counterphase principle and uses one stage of radio frequency amplification. The main features of this receiver are that it offers a stable method of oscillation control, restricted field inductances and only two dials, one of which is the wave length dial. The set is popular because of the absence of bothersome rheostats. The B-T Four proves that a set can be built with a minimum of controls and still deliver a maximum in results. We are confident our dealers will find the new B-T Four one of the best kit sellers. The illustration pictures in a simple way the various parts that go to make up the receiver, and also gives an idea of the true simplicity and common sense method of wiring.

**One Wave Length Dial
No Rheostats**



**One
Stage Audio
Frequency**

- Complete Parts Include**
- 1 Torostyle Coupler, Type TA
 - 3 1 Mfd. Dubilier By-Pass Condenser
 - 2 B-T R. F. Choke coils
 - 4 B-T Universal Sockets
 - 1 Carter Filament switch
 - 1 Carter Inductance switch (four or eight points.)
 - 1 B-T 500,000 ohm Variable Resistance of modulator
 - 1 B-T .00035 Tandem Condenser
 - 1 B-T .00025 Type L Condenser
 - 1 4-Circuit Torostyle, Type T-4
 - 1 2.2 to 1 B-T Audio Transformer
 - 1 4.7 to 1 B-T Audio Transformer
 - 1 4B Brachstat
 - 1 Type B. M. multiple plug connector
 - 1 Baseboard 10x17
 - 1 Panel 7x18x1/4 bakelite.
 - 2 B-T Tuning Controls
 - 1 Carter 2-circuit Jack
 - 1 Grid leak Poly (2 MEG.) and condenser (.00025)
 - 1 B-T M. M. F. Condenser.
- H2614—
List complete ...\$58.65

- Suggested Combination**
- 1 Complete Kit of Parts, \$58.65
 - 1 Special Cabinet 7x18x10. 8.00
 - 4 CX301A Cunningham Tubes... 8.00
 - 2 45-volt Ray-O-Vac "B" Batteries. 7.50
 - 1 90 Hour American Storage Battery 18.00
 - 1 American Beauty Cone Speaker.. 16.00
 - 1 Complete Aerial Assembly..... 3.50
- H2614C—List\$119.65

FOR BREMER-TULLY PARTS SEE PAGE 64

NEW SILVER-COCKADAY 4-TUBE SINGLE CONTROL ALL WAVE RECEIVER

The circuit consists of a single stage of tuned radio frequency amplification, a tuned detector circuit and two stages of transformer coupled amplification. A simple method of changing coils makes it possible to receive signals as low as 50 meters away up to the longest wave length. It is surprising the volume and quality of tone this new S-C receiver produces.

EASY TO WIRE—SPECIAL HARNESS FEATURE

Those who have never handled a radio part before will have no trouble in building the S-C four-tube receiver by following the simple instructions. The receiver can be assembled in a few minutes. Note the clever harness wiring arrangement with the wiring in a single cable.

ACCURATE SINGLE CONTROL

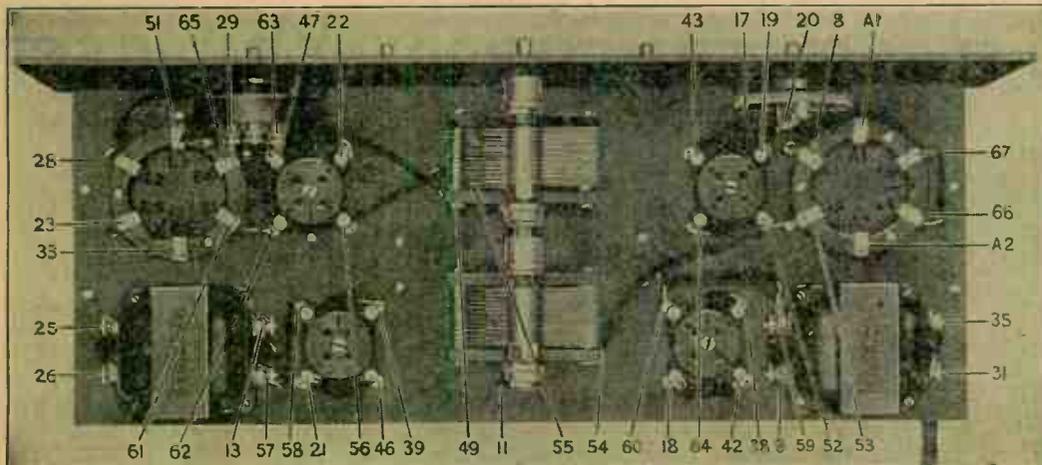
Just a simple major tuning adjustment which is accurate and easy to operate. A second auxiliary control knob adjusts the signal to the desired volume.

Complete Parts for New Silver-Cockaday 4-Tube Receiver

1 S. C. Belden connecting harness; 1 Centralab Radiom No. 25 MSR.; 1 Polymet .00015 condenser with grid leak clips; 1 Polymet .002 condenser; 1 Polymet .005 condenser; 1 Polymet 2 megohm grid leak; 1 Poster & Co. drilled and engraved front panel; 1 Poster & Co. drilled and engraved sub-panel; 2 Silver-Marshall No. 316 .00035 S. L. F. condensers at \$5.75 each; 2 Silver-Marshall No. 515 coil sockets, \$1.00 each; 1 Silver-Marshall No. 2010 A coil; 1 Silver-Marshall No. 114A coil; 4 Silver-Marshall



No. 510UX tube sockets 50¢ each; 1 Silver-Marshall No. 801 vernier dial; 1 Silver-Marshall No. 340 .001025 midset condenser; 1 pr. Silver-Marshall No. 504 mounting brackets; 2 Thordarson R200 power transformers; 1 Yaxley No. 16K 6-ohm air cooled rheostat; 1 Yaxley No. 1 jack; 1 Yaxley No. 2A jack; 1 Yaxley No. 10 battery switch; 1 screw assortment including: 12 6/32, 3/4" round head machine screws, brass; 4 6/32, 1" flat head machine screws, brass; 8 6/32, 3/4" round head machine screws, brass; 24 6/32, nuts, brass; 1 booklet complete instructions, etc. H2626—List... \$59.60



SUGGESTED COMBINATION

- 1 Complete S-C parts.....\$59.60
- 4 CX301A Cunningham tubes... 8.00
- 2 45-volt "B" batteries..... 7.50
- 1 100-amp storage "A" bat.... 20.00
- 1 Thorola Jr. speaker..... 15.00
- 1 Gold Seal homecharger..... 19.50
- 1 American aerial assembly.... 3.50

Complete—H2626C—List... \$135.10

THE IMPROVED SILVER SUPER-HETERODYNE

A Seven-Tube Set With A Wallop

One of the Outstanding Supers of the Season. A Set for Lovers of Real Radio Reception.

Complete Parts for the Improved Silver Super-Heterodyne Featuring Silver-Marshall Precision Parts

2 S. M. No. 311 .00035 S. L. F. condensers; 2 4" S. M. Vernier dials; 1 Carter imp. 6 ohm rheostat; 1 Carter imp. 400 ohm potentiometer; 1 Carter No. 102A jack; 1 Carter No. 301 jack; 2 S. M. No. 210 charted intermediate transformers; 1 S. M. No. 211 tuned input transformer; 7 S. M. UX bakelite sockets; 2 Thordarson 3-1/2 to 1 audio transformers; 1 Carter imp. switch; 3 5 by-pass condensers; 1 .002 by-pass condenser (Polymet); 1 S. M. .00025 balancing condensers; 1 7x24x1/4 bakelite panel drilled and engraved; 1 5 lead color cable (Belden); 1 7 1/2x23 wood sub-base; 2 S. M. coil sockets; 1 S. M. No. 110A antenna coil 190-550 meters; 1 S. M. No. 111A oscillator coil 190-150 meters; 1 Silver-Marshall collapsible loop; 25 No. 16 round bus-bar wire; complete instructions; 1 American screw assortment. H2648—List.....

\$79.65



SPECIAL INTERCHANGEABLE COIL FEATURE

Note the special coil holders in the illustration. The holders are used in connection with Silver-Marshall coils and automatically make contact. The coils furnished with the set accommodate 190 to 550 meters. Additional coils from 50 to 110 and 98 to 210 meters will be furnished at \$3.50 additional per set. This arrangement is an exclusive feature of Silver-Marshall equipment and makes an excellent selling point. It is just the work of a moment's time to complete all six contacts on each coil.

COAST-TO-COAST ON LOOP AERIAL

In using the Silver Super-Seven distance becomes local. Radio listeners have had the surprise of their lives when call letters across the continent have been announced with volume equal to local broadcasting—and all done on a 2-foot loop

aerial. If you are anxious for distance, by all means try the Silver-Super.

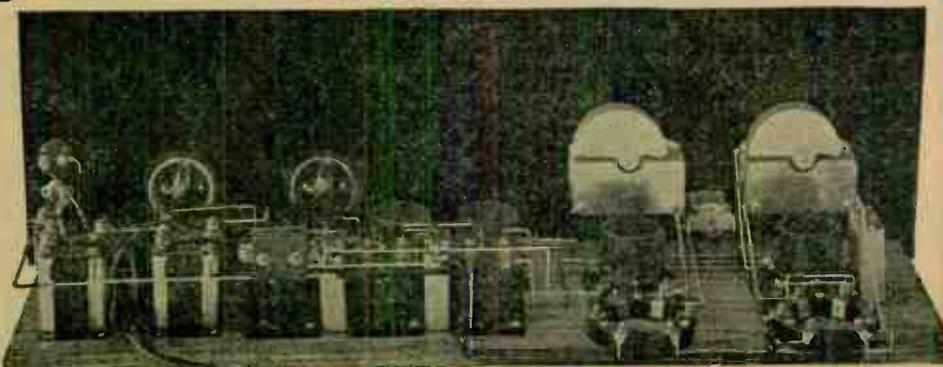
Careful Engineering

This receiver is the product of careful engineering and it is the result of years of study of radio principles. Every item that makes up the circuit is dependable merchandise and is an essential in the set. No useless parts to fill the cabinet and no complicated wiring to scare the radio experimenter. You can safely sell this set to your trade with the assurance that it will get results and give good tone and volume.

Suggested Combination

- 1 Complete kit of parts.....\$ 79.65
- 7 DL-6 DeForest tubes..... 14.00
- 2 45-volt "B" batteries..... 7.50
- 1 No. 59 100-amp. storage battery. 20.00
- 1 Thorola Model 4 speaker..... 25.00
- 1 American antenna assembly.... 3.50
- 1 Gold Seal homecharger..... 19.50

H2648C—List.....\$169.15



LOOK ON PAGE 68 FOR SILVER-MARSHALL PRECISION PARTS

Remler-Best Super Receiver

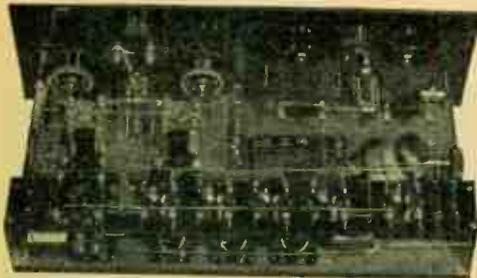
THE GREATEST 8-TUBE SUPER-HETERODYNE RADIO SET

**AMERICAN
OK SPECIAL**

Distance
TONE
VOLUME



Cuts
Through
Local
Stations
LOOP
RECEPTION



List \$125.00.
H2651CC—For Dry Cells—Assembled in cabinet, ready for wiring.



HIS famous circuit has demonstrated its absolute soundness of principle and perfection of operation by its continued popularity. Since it was announced there never has been a time when it has not gained in popularity—a marvelous record that has never been equaled by any other circuit. There is always a demand for a Remler Best Super. Be prepared by stocking the parts.

SUGGESTED DRY CELL COMBINATION

H2651C

- 1 De Luxe walnut cabinet with battery compartment \$ 20.00
- 1 Special loop for this circuit..... 12.50
- 8 CX299 Cunningham tubes..... 18.00
- 6 1.11 dry cell batteries..... 3.00
- 2 2303 Ray-O-Vac "B" batteries..... 7.50
- 1 5340 "C" battery..... .85
- 1 No. 4 Thorola loud speaker..... 25.00
- 1 Set complete parts assembled in cabinet ready for wiring..... 94.71

H2651C—List \$181.56

SUGGESTED STORAGE BATTERY COMBINATION

H2650C

- 1 De Luxe walnut cabinet with battery compartment \$ 20.00
- 1 Special loop for this circuit..... 12.50
- 8 UX201A Radiotron tubes..... 16.00
- 1 American storage battery, No. 53..... 20.00
- 2 2303 Ray-O-Vac "B" batteries..... 7.50
- 1 5340 "C" battery, 7½-volt..... .85
- 1 Thorola No. 4 loud speaker..... 25.00
- 1 Set complete parts assembled in cabinet ready for wiring..... 97.85

H2650C—List \$199.70

COMPLETE PARTS FOR USE WITH DRY CELLS

3 Type 600 Remler transformers, 1 Type 610 Remler transformers, 1 Type 620 Remler coupling unit, 2 Thordarson super-transformers, 2 to 1, 2 Carter No. 102A jacks, 1 No. 103 Carter jack, 1 IR-6 Carter rheostat, 1 IR-15 Carter rheostat, 2 No. 631 Remler capacity units, 1 R. C. Co. Midget, 5 No. 399 Remler sockets, 3 Benjamin 199 sockets, 1 Type 33 Jewell voltmeter, 0 to 5, 1 C-S battery switch, 2 Dubilier condensers, 2 mfd., 1 Type 601 Micadon .006, 2 Type 601 Micadons .0025, 1 Type 601 Micadon .00025, 1 Type 601G Micadon .0005, 1 Daven grid leak 2 meg., 10 Eby Ensign binding posts, 1 Celoron panel 7x20x½ (drilled and engraved), 1 baseboard 10x19½, 50 ft. No. 14 hookup wire; 12 ft. cambric spaghetti, 1 American screw assortment, and complete instructions for wiring. No. H2651-Special, **\$94.71**
Complete parts, not assembled, No. H2651A—List \$87.25

COMPLETE PARTS FOR USE WITH STORAGE BATTERIES

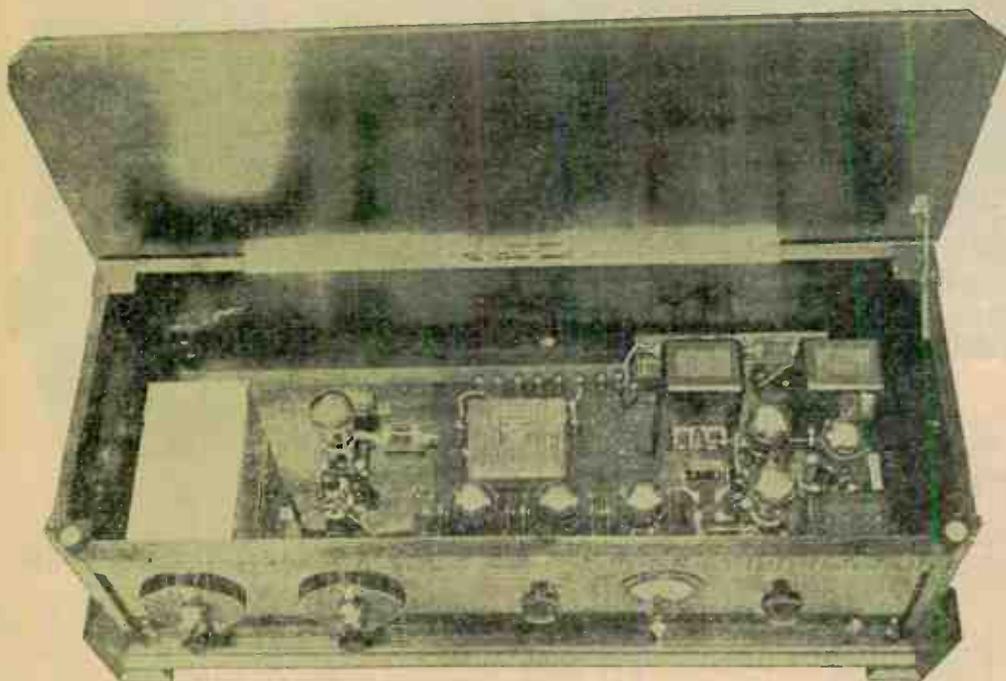
3 Type 600 Remler transformers, 1 Type 610 Remler transformer, 1 Type 620 Remler coupling unit, 2 Thordarson super-transformers, 2 to 1, 2 No. 102A Carter jacks, 1 No. 103 Carter jack, 1 IR-6 Carter rheostat, 1 IR-3 Carter rheostat 3-ohm, 2 No. 631 Remler capacity units, 1 R. C. Co. Midget, 8 Benjamin Cleratone sockets, 1 Jewell type voltmeter 33, 0 to 8v. standard, 2 Dubilier 2 mfd. condensers, 1 C-S battery switch, 1 Type 601 Micadon .006, 2 Type 601 Micadons .0025, 1 Type 601 Micadon .00025, 1 Type 601G Micadon .0005, 1 Daven grid leak 2 meg., 10 Eby Ensign binding posts, 1 7x20x½ bakelite panel (drilled and engraved), 1 10x19½ baseboard, 50 ft. No. 14 hookup wire, 1 American screw assortment, and complete instructions. No. H2650-Special, assembled ready for wiring—List..... **\$97.85**
Complete parts, not assembled, No. H2650A—List \$90.35

ALWAYS A FAVORITE KIT AMONG EXPERTS

World Radio History

POPULAR MECHANICS ^N_E_W 1927

8 Tube Super-Heterodyne



A new Circuit embodying all the latest features in scientific design

Interference reduced to a minimum — the ideal for real long distance tuning. Gets the stations you want when you want them.

Unusually easy to assemble and wire. Actual size blue prints and simplified specifications make assembling a pleasure.

All that the most critical could want for tuning ease, distance and clarity.

List of Complete Parts in Kit for Building Set

| | | |
|----|--|---------|
| 1 | Formica front panel, 3/4 by 7 by 30 in., drilled and engraved..... | \$10.00 |
| 1 | Formica sub-panel, 3/4 by 10 by 29 in..... | 8.50 |
| 2 | Strips bakelite, 3/4 by 1/2 by 5 in.; 1 strip bakelite, 3/4 by 1/2 by 2 in..... | .90 |
| 1 | Daven 3-stage super-amplifier unit type 3-R..... | 25.00 |
| 3 | Daven 1/2-amp. ballasts, complete with No. 50 mountings..... | 3.00 |
| 1 | Daven 1/2-amp. ballast, with No. 50 mounting..... | 1.00 |
| 3 | Daven MU-20 tubes..... | 12.00 |
| 1 | Daven MU-6 power tube..... | 5.50 |
| 4 | CX301A Cunningham tubes..... | 8.00 |
| 1 | S-M plug-in-coupler unit, Type 110-A..... | 2.50 |
| 1 | S-M universal socket, type 515..... | .50 |
| 1 | S-M tuned air-core filter, type 211 (available for any frequency between 40 and 50 kilocycles) any of which may be used..... | 6.00 |
| 2 | S-M audio frequency transformers, type 220..... | 12.00 |
| 1 | S-M output transformer, type 221..... | 6.00 |
| 1 | S-M aluminum shield, type 631, for oscillator unit..... | 2.00 |
| 2 | Remler capacity units, .0095 mfd., type 631..... | 10.00 |
| 1 | Jewell No. 55 "A" and "B" voltmeter, double range, 0-7.5 and 0-150..... | 10.00 |
| 5 | Standard spring-suspended sockets, Benjamin or IX type..... | 3.75 |
| 3 | Each Yaxley Pup cord-tip plugs and jacks..... | .75 |
| 2 | Benjamin sub-panel brackets..... | .70 |
| 1 | Samson R. F. choke coil..... | 1.50 |
| 2 | Marco 360 degree clockwise vernier dials, type B, dual range..... | 5.00 |
| 1 | Midget condenser, Chelton..... | 1.50 |
| 1 | Three tap Aalco loop aerial..... | 12.50 |
| 3 | 4 1/2 "C" batteries, large tapped type 31R Ray-O-Vac..... | 1.80 |
| 1 | 1 1/2 volt single cell "C" battery, large type..... | .18 |
| 3 | 45-volt "E" battery units, 9309 Ray-O-Vac. Extra heavy duty..... | 15.00 |
| 1 | Daven glastor grid leak, 2 meg..... | .50 |
| 1 | Daven glastor grid leak, 1 meg..... | 1.00 |
| 1 | No. 50 Daven mounting..... | .35 |
| 1 | 400 ohm potentiometer, Frost, Yaxley..... | 1.75 |
| 1 | 20 ohm Yaxley rheostat..... | 1.35 |
| 1 | Yaxley No. 1 jack, open circuit type..... | .50 |
| 1 | Push-pull filament switch C-S..... | .50 |
| 11 | Binding posts, with engraved tops..... | 1.65 |
| 3 | Sangamo fixed condensers, .0025 mfd..... | 1.50 |
| 1 | Sangamo fixed condenser, .0005 mfd. with grid leak clips..... | .50 |
| 1 | Sangamo fixed condenser, .006 mfd..... | .85 |
| 1 | By-pass condenser, 1/2 mfd., Tobe Deutchmann..... | .75 |
| 8 | Doz. soldering lugs, long, round-hole type..... | .80 |
| 10 | 2 ft. lengths, round, tinned-copper busbar wire..... | .25 |
| 4 | Lengths black spaghetti tubing..... | .60 |
| 2 | Ft. stranded, flexible, rubber-covered fixture wire..... | .10 |
| 12 | 6-32 brass machine screws, 1 1/2 in. long, round head..... | 1.50 |
| 18 | 6-32 brass machine screws, 1 in. long, round head..... | |
| 30 | 6-32 brass machine screws, 3/4 in. long, round head..... | |
| 7 | 6-32 brass machine screws, 1/2 in. long, round head, nickel plated..... | |
| 20 | In. strip brass, 1-16 by 1/2 in. for brackets..... | .50 |
| 1 | Set actual size blue prints..... | .75 |

Complete parts including tubes and "B" batteries—H2689—List. \$181.28

New Features of Circuit—This new Popular Mechanics Super-Heterodyne circuit has many new advantages. Uses 3 stages of resistance coupled intermediate frequency. A special filter transformer allows satisfactory tuning between 40 and 50 kilocycle. There is a special output transformer that regulates and prevents blowing out of loud speaker. Oscillator is completely shielded, practically eliminating harmonics. A radio frequency choke keeps radio frequency circuits from entering audio frequency stages. A Power tube is used in the last stage of audio frequency.

Wonderful results are being given by this new circuit. It has all the fine points of operation of the Super-Heterodyne circuit combined with the best in advanced parts and the additional advantage of the new circuit. Marvelous results are expected and are actually given. There is selectivity and tuning ease such as you have always wanted but have never been able to obtain. Tonal quality and clarity are a pleasure to hear.

Easy to Assemble—This kit is unusually easy to assemble. You do not have to be a radio engineer or expert mechanic to put it together and wire it. Any one can do it in a few evenings time. Actual size blue prints make everything entirely clear.

Dealers should stock these kits as the circuit is being featured by Popular Mechanics and there is sure to be a big demand for it.

Complete Parts—H2689—List\$181.28

Suggested Combination

- 1 Complete Parts Popular Mechanics Super. \$181.28
Including tubes, B and C batteries.
- 1 Model 31, 7x30x11 1/4 DeLuxe walnut cabinet 18.50
(Special for this set with straight front.)
- 1 160-ampere storage battery..... 23.50
- 1 Western Electric 540 AW Cone speaker.. 32.00

Complete—H2689CC—List.....\$255.28

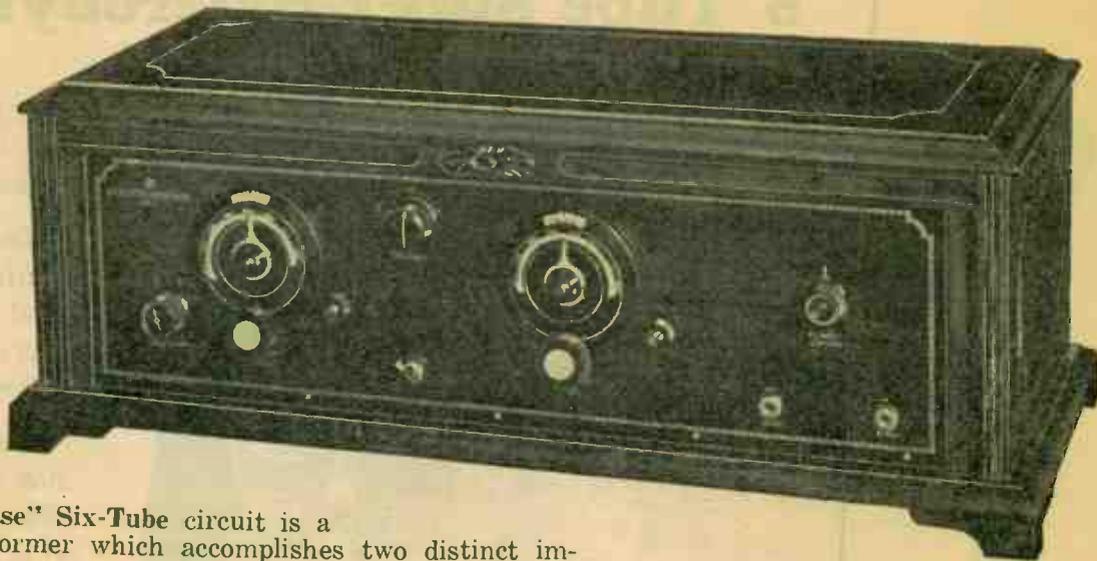
The Most Radical Change in Radio This Year

BREMER-TULLY COUNTERPHASE

The New and Improved Sensational Six-Tube Circuit

The "Counterphase" is a scientific balancing of synchronized parts. In this new sensational kit you find a set of parts far superior in quality, better in construction and higher in production costs than any other kit or complete receiver made today, regardless of the selling price.

Included in the "Counterphase" Six-Tube circuit is a special form of radio transformer which accomplishes two distinct improvements of great value.



The first improvement is the use of a third radio frequency tube. Most of the sets today employing six tubes have the sixth tube in the output or audio end, which in our opinion and several engineers, is wrong.

USES THREE STAGES OF RADIO FREQUENCY

With the new circuit using three stages of radio frequency secures maximum results without employing the long and cumbersome antenna or the unsightly loop.

TWO CONTROL DIALS

The second improved and very marked advantage is efficient tuning with but two controls. By our exhaustive and thorough experiments it is our strong conviction that two controls are the only correct and proper tuning control method.

This current will operate as well as the average set by laying only fifteen feet of wire on the floor and when used with a medium length outside aerial, it will surpass any six tube set on the market in range, tonal qualities and selectivity.

IT HAS NO EQUAL

Bremer-Tully is world-wide known for the quality of their sets and parts. They are willing to place the good-will and future of their business on the "B-T Counterphase" as they know of no six tube to equal its performance.

THE GREATEST FEATURE OF ALL

The most general weakness of radio frequency circuits is violent oscillation, which, if any of the usual means of stopping such action are employed, will not respond reasonably except on certain stations. The patented B-T means of controlling this, heretofore characteristic weakness, provide the means to you of securing maximum efficiency on both high and low wave lengths.

Complete Parts To Build Include

- B-T counterphase essential kit, consisting of 1 type TA torostyle transformer; 3 type TC torostyle transformers; 2 type LD-17 B-T tandem condensers; 3 mikro-mike condensers; 1 B-T dual resistance; 1 4-ohm fixed resistance; 1 set of radio frequency leads, in code colors; 1 set blue prints; color wiring charts; diagrams, and instructions. \$38.00
- 1 Bakelite panel, 7x24, drilled and engraved 8.12
 - 1 Wood baseboard 9 3/4"x23 1/2"60
 - 1 B-T Euphonic audio transformer ratio 2.2 to 1 5.00
 - 1 B-T Euphonic audio transformer, ratio 4.7 to 1 5.75
 - 2 B-T Tuning controls 5.00
 - 2 Dubilier 1 Mfd. Bypass condensers. 2.50
 - 1 Dubilier .001 Mfd. type .601 fixed Cond.40
 - 1 Dubilier .00025 mfd. type 601 fixed Cond.35
 - 1 E-Z 2-Meg. grid leak and Durham mounting55
 - 5 Bremer-Tully Universal sockets 2.50
 - 1 B-T Cushion socket 1.00
 - 1 Frost No. 921 double circuit jack. .60
 - 1 Frost No. 923 single circuit jack. .45
 - 1 Carter Imp switch60
 - 1 Carter 4-ohm rheostat 1.00
 - 1 Yaxley inductance switch 1.00
 - 5 Eby binding posts and Eby mounting strip95
 - 1 "C" battery, 4 1/2-volt size60

H2667—
List price **\$74.97**

EASILY OPERATED

With the improved method of control, the set is easily operated and may be tuned by the most inexperienced. This sensitivity, volume and control are one and by its use it is possible to tax a loud speaker or to reduce your reception to a point where even local conditions cannot be heard.

A REAL DISTANCE GETTER

All sets are measured as to their success and popularity by the distance they get. The "Counterphase" knows no equal and no excuses are necessary when showing to your friends and explaining the distance it receives.

The station may be logged and easily tuned in.

COMPLETE INSTRUCTIONS

The kit is complete with blue print and all parts. With the simple instructions the set may be built satisfactorily within a short time.

CROWE METAL SHIELDED PANEL

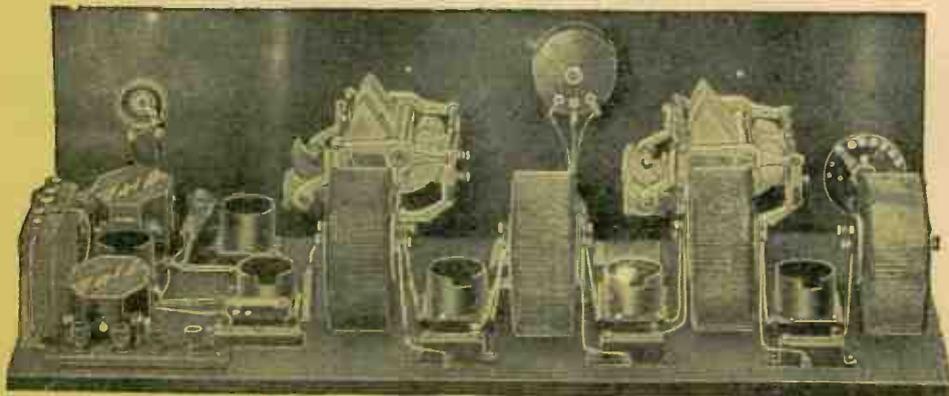
The two listed together provide a complete metal shielding unit.

Shield is sturdily made of high grade material and held together by strong rivets. It fits the panel exactly. This shield is not included in the list of parts or the suggested combination. Be sure and add it on the price of parts when ordering. H1911—List\$8.00

CROWE METAL PANEL

Eliminates all body capacity. Beautifully finished in glossy black. Size 7x24, drilled and engraved especially for the set.

This special panel comes extra and must be added on price of parts. H1910—List\$6.00



SUGGESTED COMBINATION H2667C

- 1 B-T Counterphase Six kit\$ 74.97
- 1 Solid walnut cabinet 15.00
- 6 DL5 DeForest tubes 12.00
- 2 No. 2303 Ray-O-Vac "IF" bats. 7.50
- 1 Amer. No. 58, 100-amp. stor. bat. 20.00
- 1 Gold Seal homcharger 19.50
- 1 American Beauty cone speaker. 16.00
- 1 American antenna assembly 3.50

H2667C—
List **\$168.47**

WRITE FOR EXCLUSIVE FRANCHISE ON AMERICAN BEAUTY SETS

Victoreen Super-Heterodyne Type "OM" Kit

Popular 8-Tube Super Is Acclaimed Another Worlds Wonder!

The explanation of the marvelous results which are being obtained with the Victoreen kits is principally in the transformers. They are actually tuned, not just matched. The peaks are tuned to within 1/3 of 1 per cent of each other, and yet they are not broad enough at the top to cause distortion.

Many Features New to Radio

There is absolutely no inter-stage oscillation, because each transformer is adjusted to the same amplification constant. Still another feature is that it is unnecessary to match tubes. This is accomplished by another action of the condenser across the secondary. No special care need be taken in relation to capacity of leads or position of instruments, even. It is not necessary or desirable to shield any part of the set. Oscillator coil requires no adjustment. In short this is the basis of a revolutionary idea in super-heterodyne circuit building.

There Is No Comparison

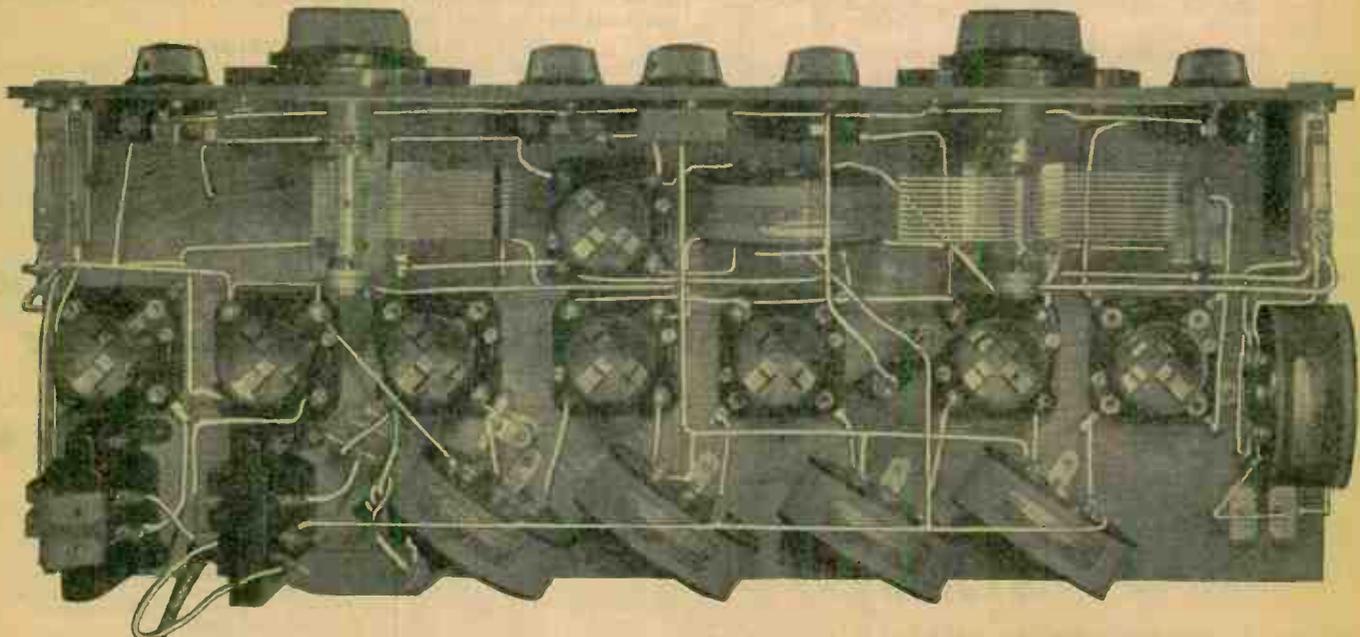
This unusual circuit has been operated and tested along side every well known circuit, and the results have been unbelievable. Such tone, volume, selectivity and distance have never before been attained.

The Victoreen has met instant popularity among fans who desire the best and who do not wish to be bothered by constantly adjusting and working with a receiver to make it work.

There is nothing to cause trouble or get out of order, and because of the sturdy construction that is possible, the Victoreen is fast becoming the standard of comparison among radio fans.

Thousands Built Last Year.

Many thousands were sold last season and, because of its unusual features, will be a big leader this year. For those who wish quality, the Victoreen will satisfy and please them.



Victoreen 8-Tube Super-Heterodyne—The Peak of Perfection!

| COMPLETE PARTS TO BUILD | |
|---|---------|
| 1 Victoreen kit, consisting of 3 Victoreen radio frequency transformers and one Victoreen input transformer and one Victoreen oscillator..... | \$33.50 |
| 1 Victoreen Antenna Coupler..... | 3.50 |
| 8 Na-Ald De Luxe sockets at 75c..... | 6.00 |
| 2 Hammarlund .0005 S. L. F. condensers at \$5.00..... | 10.00 |
| 2 Marco A. C. Vernier Dials at \$2.50..... | \$5.00 |
| 2 Micadon .00025 grid condenser, Type 601G at 45c..... | .90 |
| 1 .001 Micadon Type 601 fixed condenser | .40 |
| 1 Dubilier Bypass condenser, 1 mfd.... | .75 |
| 2 Poly grid leaks, 2 meg. each at 25c.. | .50 |
| 1 Ray-O-Vac 231R "C" battery..... | .60 |
| 1 400-ohm Carter Imp. potentiometer.. | 1.00 |
| 2 20-ohm Carter Imp. rheostats at \$1.. | 2.00 |
| 2 6-ohm Carter Imp. rheostats at \$1.. | 2.00 |
| 2 Modern Symphony Transformers at \$6.00..... | 12.00 |
| 1 1x24 Bakelite panel..... | 3.94 |
| 1 5 1/4 x 23 baseboard..... | .45 |
| 2 Carter No. 104 double circuit jacks at \$1.00..... | 2.00 |
| 1 Carter No. 103 single circuit filament control jack..... | .90 |
| 1 C-S filament switch..... | .50 |
| 7 Eby binding posts at 15c..... | 1.05 |
| No. H2678C— | — |
| Complete Parts—List..... | \$86.99 |

Our dealers who cater to the business of set builders will find it much to their advantage to build up one of these Victoreen 8-Tube Supers and use it as a demonstration in their store. Customers who see and hear the set in operation will be easily won over and sales will start immediately. Note the neat panel layout above. The Victoreen parts are very compact and make a complete set that is neat in appearance, small in space and very effective in operation.

EXCELLENT TONE—BIG VOLUME—GREAT DISTANCE

The Victoreen Super combines all these qualities. The tone quality is a surprise to those not used to such beautiful effects. The volume on distant stations is truly remarkable and the distance possible under conditions of difficult reception makes this set a leader in the field of supers.

ESSENTIAL KIT

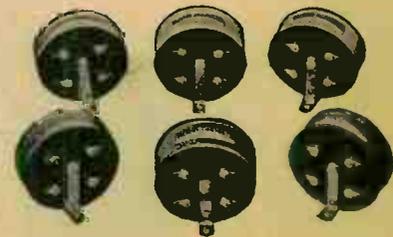
Kit consists of 4 No. 170 R.F. transformers, 1 No. 150 oscillator coil.
H2678—
List..... **\$33.50**

FOR USE WITH ANTENNA

For use with antenna, instead of loop, No. 160 Victoreen Antenna coupler is needed. H2679—
List..... **\$3.50**

FOR DRY CELL PORTABLE SUPERS

Use Victoreen No. 171 R.F. transformers. This coil is identical to the No. 170, but designed especially for use with dry cell tubes. Greater volume and selectivity than otherwise obtained when using dry cell tubes, No. 171 Victoreen R.F. transformer
H2676—
List. Each..... **\$7.00**



This is the essential kit, which, used in a super-heterodyne circuit, brought in Texas and far Western stations in New York City with all the local stations and with summer static still a troublesome factor. Reception in Cleveland of European stations has been verified beyond doubt. This selectivity has made the Victoreen one of the most popular supers on the market.

A SUPPLEMENT TO THIS CATALOGUE WILL FOLLOW IN TWO WEEKS

The Famous Browning-Drake

With Resistance Coupled Amplification

Selectivity is the prime factor to be taken into consideration when building the modern receiver. In addition to this each unit must be working at maximum efficiency.

This remarkable receiver was designed by G. H. Browning and F. H. Drake of Harvard University. After very careful mathematical calculations over 90% of the amplification was actually proven by laboratory tests.

It is not a trick hookup. In addition to being scientifically correct it is also very simple to construct. About half as many connections are necessary as the ordinary five-tube receiver.

SIMPLE TO OPERATE

It is simple to operate. Once a station is tuned in, it will always be found at the same dial settings providing the wave length of that particular station does not change. Detailed instructions of how to tune this circuit will be described later.

ECONOMICAL TO BUILD

It is economical to construct and operate. The average five-tube receiver draws from 20 to 30 milliamperes from the "B" batteries. Using one C-299 or UV-199 tube and three C-301A or UV-201A tubes only 10 milliamperes plate current will be consumed in this circuit.

OUTSIDE OR INSIDE ANTENNA

An additional feature is the antenna that can be used. If it is desired to have an inside aerial, a single wire of only twenty feet in length will be very satisfactory. If an outside aerial can be conveniently installed thirty feet of single wire will produce excellent results. A builder "logged" 63 stations in a single evening



using an inside aerial while seven local broadcasting stations were in operation.

This circuit has several distinct advantages. When properly neutralized it will not radiate nor cause any interference with other receivers in the neighborhood.

VERY SELECTIVE

It is extremely selective and will bring in distant stations during local broadcasting. The tickler is to be used as in any regenerative receiver, to increase or decrease the volume of the signals. If the receiver tunes broadly, this is an indication that your antenna is too long.

LOG DIAL SETTINGS

To tune in a distant station, adjust tickler until receiver is oscillating and the carrier wave is picked up. Then reduce tickler coupling and readjust condensers for maximum signal. With a fully charged six-volt battery, the rheostats will be normally used at about 70 degrees on each dial. When a certain station is received, the dial settings remain the same and as long as the wave length does not change it will always be found in the same place.

ESSENTIAL KIT



This assembly is one of proven merit and has made remarkable records for distant reception. It excels on a short indoor aerial. Any modern three-element tube may be used with the proper rheostat. Oscillation with various tube combinations may be aided and controlled by varying plate voltage intensity.

For those who wish to build a set which is the last word in modern design for simplicity, economy and consistent performance, this arrangement is recommended. H2637—List

\$17.00

The Essential Kit Consists of the Two Coils and Two Condensers

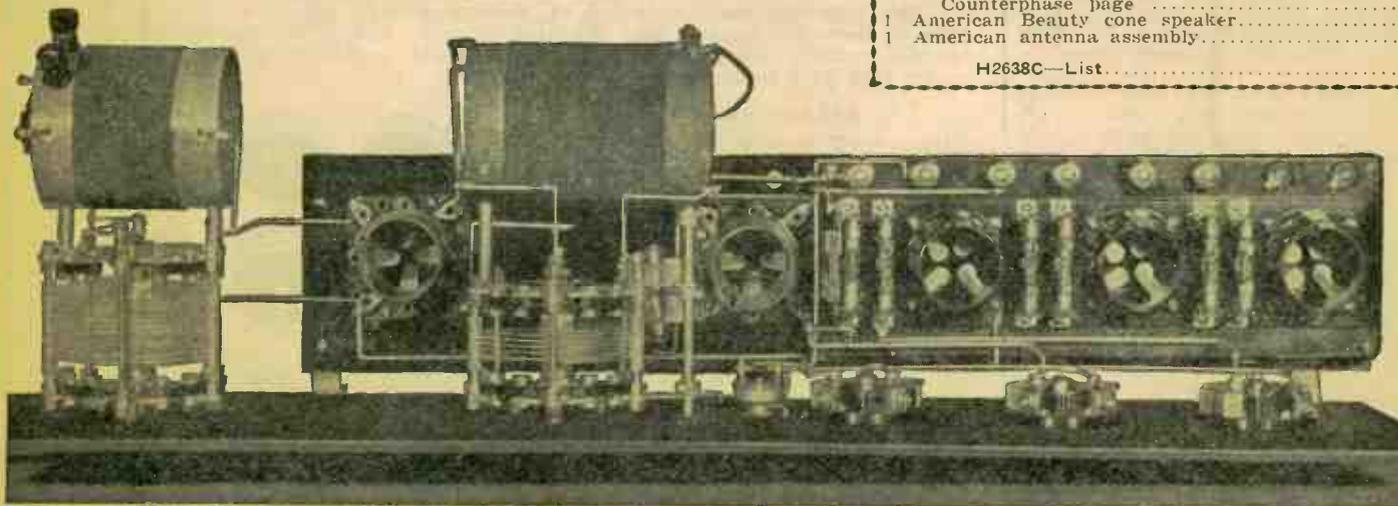
Do not attempt to wind these coils yourself. This circuit was developed after months of experimenting and exhaustive mathematical calculations. The maximum signals are obtained only with a certain inductive relation between the primary inductance and the coupler. In order to produce the correct amplification, the construction has to be very exact to obtain the minimum capacity effect between the primary and secondary coils.

Complete Parts for the Construction of a Browning-Drake Receiver

| | | | |
|---|---------|---|----------------|
| 1 Marco essential kit..... | \$17.00 | 1 Type 601G .00025 Dubilier Fixed condenser | .45 |
| 1 Bakelite panel, 7x26x 3/8, drilled and engraved | 7.80 | 35 lengths square bus bar..... | .70 |
| 1 Bakelite sub-panel, 4x20 ins. drilled | 3.44 | 3 Eby plain binding posts..... | .45 |
| 2 Marco dials | 5.00 | 75 Soldering lugs | .50 |
| 1 Daven Super-Amplifier | 15.00 | 2 Angle brackets | .70 |
| 1 Benjamin Cleartone stand. socket..... | 1.00 | 2 Lengths special varnished cambric spaghetti | .30 |
| 1 Benjamin Cleartone 199 socket..... | 1.00 | 10 1/2-in. 6/32 FH nickeled screws..... | .20 |
| 1 Frost No. 921 double circuit jack..... | .60 | 30 1/2-in. 6/32 RH nickeled screws..... | .40 |
| 1 Frost No. 923 open circuit jack..... | .45 | 10 3/4-in. 6/32 RH nickeled screws..... | .20 |
| 1 6-ohm Poly EZ-Stat rheostat..... | .75 | 10 1 1/4-in. 6/32 RH nickeled screws..... | .20 |
| 1 20-ohm Poly EZ-Stat rheostat..... | .75 | 30 6/32 nickeled nuts | .20 |
| 1 30-ohm Poly EZ-Stat rheostat..... | .75 | 1 Booklet, "Radio Sets that Jack and Dad built" | .25 |
| 1 Cutler Hammer Toggle switch..... | .60 | | |
| 1 .0001 Type 601 Dubilier Fixed condenser | .35 | | |
| 1 .001 Type 601 Dubilier Fixed condenser | .40 | | |
| | | H2638— | |
| | | Total, list price..... | \$59.44 |

Illustrated below is the completed Browning-Drake Receiver.

| SUGGESTED COMBINATION H2638C | |
|---|----------|
| 1 Marco complete kit for Browning-Drake..... | \$59.44 |
| 4 UX201A Radiotron tubes..... | 8.00 |
| 1 UV199 Radiotron tube | 2.25 |
| 2 No. 2303 Ray-O-Vac 45-volt "B" batteries..... | 7.50 |
| 1 American No. 58 100-amp. storage battery..... | 20.00 |
| 1 Gold Seal Homecharger..... | 19.50 |
| 1 Solid walnut cabinet, exactly as illustrated on B-T Counterphase page | 18.00 |
| 1 American Beauty cone speaker..... | 16.00 |
| 1 American antenna assembly..... | 3.50 |
| H2638C—List..... | \$154.19 |



Always Buy the Best

IF YOU DON'T SEE WHAT YOU WANT, WRITE FOR IT

The New WALBERT ISOFARAD Assembly

(Patented May 11, 1926)

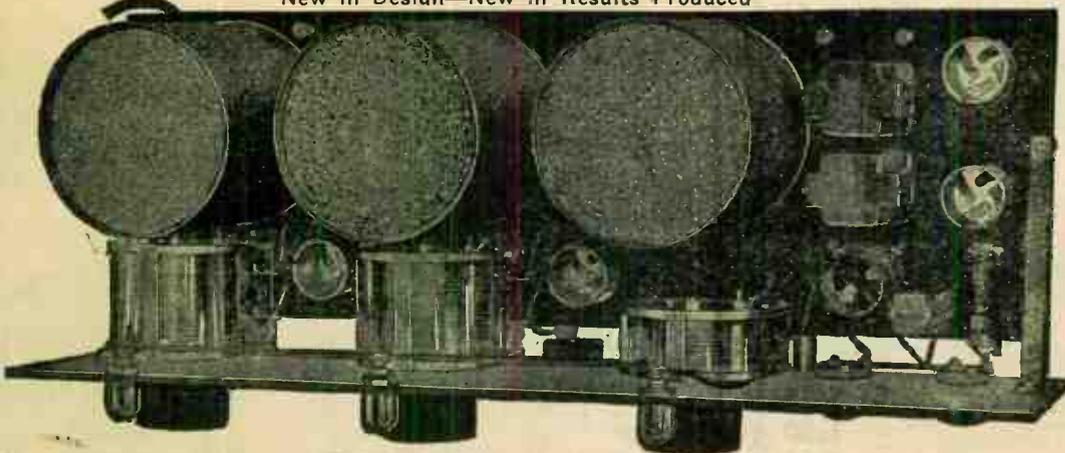
Here is a new step, a new principle, a new and unbelievable result giver. Do not compare it to any other circuit, kit or assembly. Former circuits and theories are discarded. You have never known anything like Isofarad in circuit or in apparatus. At last reception is fundamentally bettered.

A technical description of the circuit is useless as the results are what interests dealers and the radio buying public. Isofarad does give the results—results that make quick sales—results that astonish all, even the experienced dealer. Sensitivity, selectivity, clarity—all the talking points are found, only they are developed to a much higher degree.

Anyone can obtain Isofarad results with this assembly. Easy to wire. Wire and full instructions furnished. All parts already mounted. A splendid opportunity for the home builder, amateur set builder and dealer. Fits standard cabinet with 7x26-in. panel. Isofarad Assembly No. H2649—List \$85.00

Special Cabinet for this Receiver 7x26x11 Straight Front Deluxe Walnut
H2394—List \$15.00

New in Design—New in Results Produced



Top View of Five-Tube Assembly

SUGGESTED COMBINATION H2649C

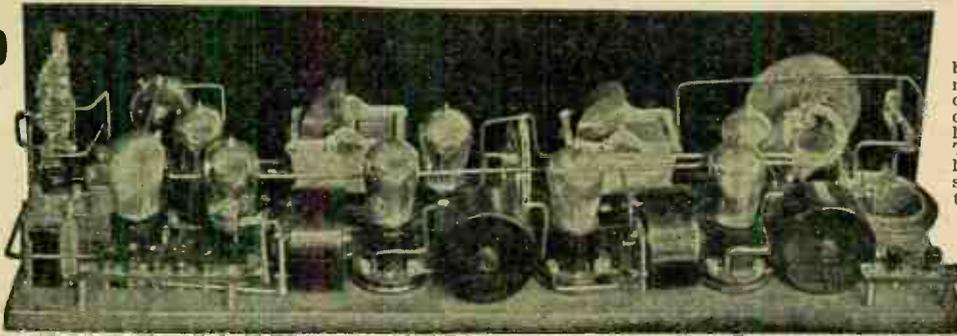
- 1 Isofarad receiver, assembled but not wired . . . \$85.00
- 5 DL-5 DeForest tubes . . . 10.00
- 2 45-volt "B" batteries . . . 7.50
- 1 4½-volt "C" battery60
- 1 American No. 58 storage battery (100 amp.) 20.00
- 1 American Beauty Cone Speaker 16.00
- 1 American antenna assembly 3.50

H2649C—Price \$142.60

ULTRADYNE

HAS STOOD THE TEST FOR YEARS

No better set can be built, regardless of cost. Ultra sensitive. Easily operated. Super selective and will tune out interference where all others fail. Air core sharply tuned transformer account for its high intermediate amplification constant. Perfect reception. Quickly tunes out powerful local stations and brings in distant stations without the usual distortion.



COMPLETE KIT OF PARTS

- 1 7x30-inch cabinet with base-board; 1 7x30-inch panel; 2 .0005 mfd. ultra low loss variable condensers; 2 ultra Vernier knobs and dials; 1 low loss tuning coil; 1 low loss oscillator coil; 1 ultraformer Type A; 3 ultraformers Type B; 1 low loss 180-degree coupler with shield; dial for coupler; 8 vacuum tube sockets; 1 potentiometer; 8 amperites; 2 double circuit jacks; 1 double circuit filament control jack; 1 single circuit filament control jack; 1 filament switch; 2 audio frequency transformers; 1 variable grid leak; 7 binding posts; 2 bakelite binding post mounting strips; 1 .0005 mfd. condenser with grid leak mounting; 4 .00025 mfd. condensers; 2 .001 mfd. condensers; 1 .005 mfd. condenser; No. 14 coupler tinned bus bar wire; assortment of screws and nuts. Complete parts. H2646—List. **\$99.00**

SUGGESTED COMBINATION—L-2 ULTRADYNE

- 1 L-2 Ultradyne complete parts in cabinet assembled ready to wire \$99.00
- 8 DL-5 DeForest tubes 16.00
- 1 American No. 59 storage "A" battery 20.00
- 2 45-volt "B" batteries 7.50
- 1 American Velvet Tone speaker 15.00
- 1 American antenna assembly 3.50
- H2646—Complete List \$161.00

L-2 ULTRADYNE ESSENTIAL KIT

It contains: Special low loss, 180-degree sensitizing coupler with copper shield. 1 oscillator coil. 1 antenna tuning coil—low loss design. 3 type B ultraformers, designed with air core to give very sharp tuning. 4 matched fixed

condensers.
H2645—List **\$30.00**



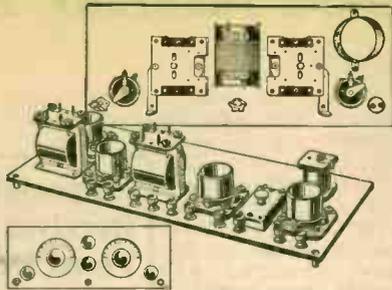
8 Tubes
Volume—Distance—Selectivity.

WE CARRY THE LARGEST LINE OF SPEAKERS WEST OF NEW YORK

Samson T C Assembly

ALL PARTS MOUNTED BUT NOT WIRED

The SAMSON TC Assembly is rather a departure from the ordinary method of furnishing kits to the amateur constructor. It comprises a front and base panel of genuine FORMICA upon which are mounted all the necessary parts for the completion of the set, together with the necessary holes for wires and all engraving. The fundamental circuit of this set is one stage of tuned neutralized Radio Frequency with a regenerative detector and two stages of low-ratio transformer coupled audio frequency amplification. This assembly offers a departure in the method of neutralizing the Radio Frequency tube, and to those who have had difficulty in the process of neutralization, this set will be a pleasurable surprise, as neutralization of any tube can be readily accomplished in a few moments. Another departure from standard practice is the incorporation of a selectivity control which enables the operator to obtain either selectivity to a high degree, or broadness in tuning, dependent entirely upon what the interference conditions are where the set is operated.



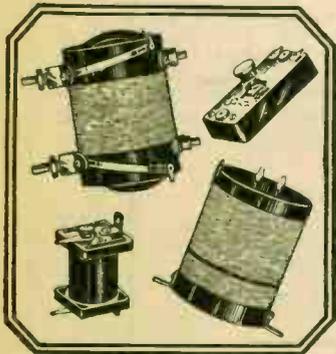
COMPLETE PARTS

7x8x $\frac{3}{4}$ front panel, 7x17x $\frac{1}{2}$ base panel, 1 Samson R. F. Transformer, 1 Samson fixed coupler, 2 Samson 1-3 A. F. Transformers, 1 No. 103 Carter Jack, 1 30-ohm general radio rheostat, 2 variable .0005 condensers, 1 No. 104 Carter Jack, 1 10-ohm general radio rheostat, 1 Carter Imp switch, 1 .001 Mfd. Micadon, 1 .005 Mfd. Micadon with grid leak clips, 10 Eby Ensign binding posts and 1-5 Meg. grid leak. H2596—List... **\$65.00**

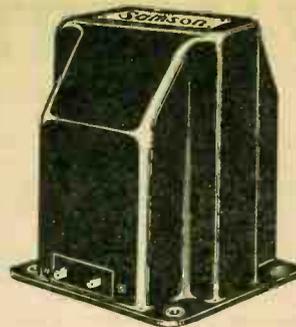
Samson T C Kit

Primarily designed for use in TC set, but can be used in several other circuits. Parts used comprise:

- 1 Samson double rotor coupler. H3286—List..... **\$7.50**
- 1 Samson neutralizing condenser. H518—List... **1.75**
- 1 Samson radio frequency choke. H3287—List..... **1.50**
- 1 Samson fixed coupler. H3288—List **4.00**



SAMSON AUDIO FREQUENCY UNITS



These parts are greatly refined and improved through years of research work. Radios equipped with the Samson audio units translate sound faithfully. They carry the manufacturer's guarantee as being the finest type of radio parts.

Samson Symphonic Transformer, climax of several years' development, gives perfect reproduction of broadcast tones over greater range than average loud speakers can cover or is now broadcast. No. H3271—List..... **\$9.00**

The new Samson HWA3 Transformer, 2:1, 3:1, 6:1. Standard equipment with leading set manufacturers and home constructors. Built for service as well as quality of reproduction. No. H3272—List **\$5.00**

Samson Push-Pull Input Transformer Type X. Gives uniform amplification characteristics needed to assure minimum distortion and give remarkable tone quality. No. H3273—List..... **\$5.50**

Samson Push-Pull Output Impedance, Type Z, gives maximum volume with a minimum of tube distortion, permitting excellent results. No. H3274—List..... **\$5.00**

Samson Dual Impedance (Donle Design) is complete—no condensers of leaks required—being connected like a transformer, and gives better tone quality than the ordinary transformers. It keeps on giving this tone quality because hermetically sealed. No. H3276—List **\$5.00**

Samson Audio Plate Impedance. A high inductance choke for use with standard or high MU tubes where the very best results are desired. No. H3277—List..... **\$4.50**

Samson Audio Grid Impedance forms ideal power amplification combination with Plate Impedance. No. H3278—List.. **4.50**

Samson Output Impedance keeps direct current component out of loud speaker. No. H3279—List..... **5.00**

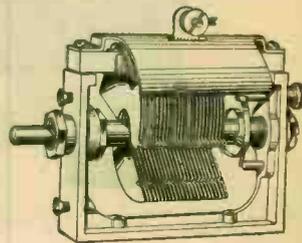
VARIABLE CONDENSERS

A splendid condenser that gives uniformly good results. Made mechanically and electrically correct.

- Capacity 500 mmf. H1685—List..\$7.50
- Capacity 350 mmf. H1686—List.. 7.25
- Capacity 250 mmf. H1687—List.. 7.00

For high frequency, short wave length work, or for other purposes where a condenser of relatively small maximum and minimum capacitance is desired, the following can be furnished:

| Min. Capac. | Max. Capac. | No. | Price |
|-------------|-------------|-------|--------|
| 10 mmf. | 125 mmf. | H1688 | \$7.00 |
| 10 mmf. | 75 mmf. | H1689 | 7.00 |



SAMSON SUPER HETERODYNE

For Distance, Volume, Selectivity

With a set constructed of Sampson parts, great distances with loud speaker volume is obtained. With this set one can tune in or out any station almost at will.

The Samson Super-Kit is composed of three Intermediate Frequency Transformers, a filter Transformer and an Oscillator Coupler. The Intermediate Transformers and Filter are wound in the well known helical manner, and being wound in such manner, they offer an unparalleled efficiency and amplification factor. The Intermediate frequency Transformers are matched perfectly as a set, together with their associated Filter Transformer. The matching of these Transformers is far closer than can be accomplished with other types of transformers which do not make use of the helical winding. The variances between the peaks of these transformers is never more than 87 cycles, and in most cases are matched as close as 20 cycles. The breadth of the peak of these transformers is approximately 10 kilocycles, assuring the passage of all the essential side bands so vitally necessary to the true reproduction of music. The Oscillator Coupler is of a design which is not used in common practice, and due to this unique design and circuit arrangement, offers, together with its associated parts, a generator of constant energy, independent of the frequency. This kit offers the amateur and experimenter parts with which many experiments and various circuits may be tried. Samson Super Essential Kit. H2594— **\$22.50**
List Price

3,000 Miles Receiving Range

Users of the Samson Super regularly report 3,000 miles receiving range, and under very favorable conditions stations over 5,000 miles distant have been received.

QUALITY PARTS

Nothing but the highest grade, quality parts are listed in the complete parts for construction of this wonderful super.

GUARANTEED

The manufacturer of Samson parts guarantees them against mechanical and electrical defects.

EASY TO CONSTRUCT

Cotton Superheterodyne Using Samson Parts

Below are listed the complete parts to build the Cotton Superheterodyne Circuit, as described by Volney Hurd, radio editor of The Christian Science Monitor, in that publication. This circuit has received the widest publicity and is considered one of the finest superheterodyne circuits on the market today.

COMPLETE PARTS

- 1 Front Panel, Bakelite, 7x28x $\frac{1}{2}$. 1 Base Panel, Bakelite, 8x27x $\frac{1}{2}$. 8 Benjamin Cleratone Standard Sockets. 1 Chelton Midget Condenser. 2 Carter Imp. Rheostats, 30 ohm. 1 Carter Imp. Rheostat, 10 ohm. 1 Carter Imp. Potentiometer, 200 ohm. 2 Samson Uniform Frequency Variable Condensers, 500 MMF. Maximum Capacity. 2 4-inch Marco C. W. Dials. 3 Daven Grid Leak Mountings. 1 Carter Imp. Battery Switch. 2 Carter Double Circuit Jacks. 1 Carter Single Circuit Jack. 2 Samson Intermediate Frequency Transformers. 1 Samson Filter Transformer. 1 Samson Oscillator Coupler. 2 Eby Binding Posts. 2 Samson Helical Wound Audio Frequency Transformers (3 to 1). 1 Dubilier .005 Fixed Condenser. 2 Dubilier .0005 Fixed Condensers. 2 Dubilier .001 Fixed Condensers. 2 Dubilier 1 Mfd. By-Pass Condensers. 1 Daven .025 Meg. Grid Leak for Oscillator. 2 Daven 5. Meg. Grid Leaks for Detector.

FOR AUDIO AMPLIFIER

- 1 Daven .25 Meg. Grid Leak for Secondary of 1st Audio Trans. 1 Daven .1 Meg. Grid Leak for Secondary of 2nd Audio Trans. 2 Daven Grid Leak Mountings. Complete Parts, H2595— **\$86.25**
List



YOU WILL FIND ADDITIONAL KITS ON PAGES 87, 89, 90 AND 91

NEW MODEL SUPER FIVE AMERICAN

The Supreme Console

Here is the last word in American supremacy—a beautiful 5-tube console receiver. The photograph hardly does justice to the beauty of the instrument. For sheer beauty and elegance this model has no competitor.

Here, without question, is the finest 5-tube radio receiving set on the market. With its many outstanding features, wise radio buyers will choose this popular model.



List

\$85⁰⁰

"The Supreme"

fies the tone without distortion and gives a volume sufficient to fill the largest room.

Embodies All The Advanced Ideas

The finest set you can own, regardless of cost. Represents the closest approach to perfection yet obtained, this super set well deserves its widespread popularity. Since its first presentation and announcement thousands upon thousands have been sold, and as far as we can check, not one has failed to do all that we claimed.

The principle used in the American Super-Five is believed by engineers to be the most perfect known, and until some discovery is made that upsets all present methods of radio communication this American super principle will remain the last and final word in high powered radio reception.

Tested Parts Only Are Used

Every part and piece of apparatus used in the construction has been carefully selected and tested by the American Radio Laboratories and not one thing has been overlooked that would add to the efficiency of this instrument. The result is an instrument which leaves absolutely nothing to be desired in selectivity, range and clearness of tone.

All body-capacity effects have been eliminated by shielding. DESIGNED BY OUR OWN LABORATORIES. This remarkable receiver was designed by our laboratories. It is not a trick hook-up. It is constructed with standard parts and is built scientifically correct.

Once a station is tuned in it will always be found at the same dial setting providing the wave length of that station is not changed. Instructions for tuning are included with each set. Sent to you on our iron-clad money back guarantee. We won't be satisfied until you are. Send your order today. H2639—List.....**\$85.00**

| SUGGESTED COMBINATION | |
|---|----------|
| 1 American Supreme Super-5 Console..... | \$85.00 |
| 5 DL-5 DeForest Tubes..... | 10.00 |
| 1 100-Ampere Storage Battery..... | 20.00 |
| 2 45-Volt 2303 Ray-O-Vac "B" Bat..... | 7.50 |
| 1 4½-Volt "C" Battery..... | .60 |
| 1 American Antenna Assembly..... | 3.50 |
| Complete—H2639—List..... | \$126.60 |

THE SET THAT GOT EUROPE

It was this set that received so much publicity last year during the Trans-Atlantic test. The one set that surpassed the mass of sets and reached out to Europe and South America. One party heard Berlin sufficiently loud to use the speaker, which was audible to ten persons in the room. Indeed, it deserves the title "King of Receivers."

Defies All Five-Tube Competition in Performance!

A 5-tube tuned radio frequency circuit. We challenge the world to duplicate or even approach the radio value offered in this set. Here's everything you want in a radio—at a new reduced price. It is a high-grade and beautiful instrument. You have to see and hear it before you can fully realize its tremendous value. Made and guaranteed by us! Our own product and the world's finest.

Ease of Operation

Anyone can operate this radio efficiently. The wonderful results to be had make them a popular model. We make and guarantee them to operate satisfactorily on all major broadcasting stations in North America. The greatest value of the radio world is before you. Every set is tested and retested before we ship it.

You Buy Only the Best

Good quality, good reception and unusual selectivity combined with a splendid appearance—all this and more is found in the American Super Five. Stations are brought in quickly and easily and can be turned back to at any time.

Local interference will bother you no more than on any of the best sets you can name. Loud speaker volume from coast to coast with a good clear tone.



No Squawks or Howls

Low Priced

This low priced set performs with any set you can mention and gives results believed impossible by many medium and high priced set owners. It brings in stations far and near—through local interference—with remarkable ease. You don't need to be a radio engineer to operate it.

Includes All the Latest Features

Just as much painstaking care has been taken in design and finish as in the internal construction. Don't be misled because of the low price; the set is absolutely not cheap nor shoddy, but to the contrary, of unusually elegant appearance. All the latest features of design are included. This is a set that anyone will be proud to display.

The Greatest Value In America

There is no place in the radio world where you can duplicate or come any where near this wonderful American value. We have plenty of evidence where a number of people brought in Europe on a loud speaker during the last international test. Such results, combined with the splendid appearance and the extremely low price makes this model very popular. H2540—List.....**\$49.50**

| American Super-5 DeLuxe | |
|---|----------|
| The same in appearance as the regular American Super-5, but with a larger cabinet which accommodates all dry batteries. It makes an ideal set for dry cell operation, but is equally good for storage battery use even if the space is not sufficient to house the larger storage battery. The DeLuxe model has the new panel and other improvement as outlined for the regular model. H2539—List Price..... \$55.00 | |
| COMBINATION | |
| 1 American Super-5 DeLuxe..... | \$55.00 |
| 5 201A type tubes..... | 10.00 |
| 1 American Velvet Tone Cone Speaker..... | 16.00 |
| 1 90-Hour American Storage Battery..... | 18.00 |
| 2 45-volt "B" Batteries..... | 7.50 |
| 1 "C" Battery..... | .60 |
| 1 American Antenna Assembly..... | 3.50 |
| H2539C—Complete..... | \$110.60 |

\$49.50

| SUGGESTED COMBINATION | |
|---|----------|
| 1 American Super-5 Receiver..... | \$49.50 |
| 5 201A type tubes..... | 10.00 |
| 1 American Velvet Tone Speaker 16.00 | |
| 1 90-Hour American Storage Battery..... | 18.00 |
| 2 45-Volt "B" Batteries..... | 7.50 |
| 1 "C" Battery..... | .60 |
| 1 American Antenna Assembly..... | 3.50 |
| H2540SC—Complete..... | \$105.10 |

The Madrid Console American Super-5

Positively the Greatest Console Value Ever Offered

The Madrid console has aroused the radio world! It has no competition! Manufacturers and dealers ask how we can give so much for so little money. We make them in our own factory and sell direct to you. Just to see and to hear them will convince anyone, from the novice to the radio expert, of their unqualified leadership in value, performance and appearance.

Only Experts Work On the Madrid

No pains or expense have been spared to make this an outstanding value in the real quality set field. At every point technical and structural finish is of the very finest. The case is a triumph of the cabinet makers' art. It fairly glows with quality and distinction. Carefully selected wood has been polished to such a high degree that it is as artistic and beautiful a piece of furniture as can be imagined.

Testimonials Prove Our Statements

The same quality of mechanism that makes customers write, "If I had my choice of the American Super-5 and any other set of twice its cost, I would take the American Super-5. It surely does perform." We have many letters, written voluntarily direct to us from users that report startling, almost unbelievable feats of reception. Some write that they have received from 50 to 75 different stations in the course of a single evening's entertainment. Here is the Super set in the Super cabinet—the American Super-5 De Luxe.

Unusual Selectivity—Perfect Tone

For those who desire a set of real selectivity, a set that distant points, we highly recommend the Madrid. Even with this unusual selectivity, the tone is simply marvelous. If you were to close your eyes you would almost swear the broadcasting was going on in your home itself. The tone is so natural, sweet and undisturbed by foreign noises.

Tuned Radio Frequency

The Madrid console employs the usual American 5-tube tuned radio frequency circuit which has been perfected in every way possible. There will not be any squeal or howl, such as is heard in the ordinary type of receiver.

THE IDEAL FAMILY SET

The Madrid receiver can be truthfully called the ideal family set. It was created to meet the requirements of each and every member, from the ten-year-old child to grandfather or grandmother. Its ease of operation, simplicity, faithful tonal reproduction and long range qualities should make it an essential fixture in every home.

This set should not be confused with the ordinary "cheap" offering. It was not built as a "quantity" product to sell, but as a receiver of such quality as to justify its being placed at the head of all receivers selling at or around this price. H2508—List.....**\$115.00**

Built-in Speaker

The speaker is neat in appearance and wonderful in performance. No unsightly horn to mar the beauty of the set itself. The speaker and all batteries are self-contained. The American Super-5 Madrid console is a complete radio set in itself. Radio engineers tell us that short battery leads make for better reception. This console puts all accessories close to set and makes possible very short lead wires.



List

\$115.00

"The Madrid"

Suggested Combination

| | |
|--|----------|
| 1 American Super-5 console..... | \$115.00 |
| 5 201A type tubes..... | 10.00 |
| 1 American 100-hour storage battery..... | 20.00 |
| 2 45-volt "B" batteries..... | 7.50 |
| 1 "C" battery..... | .60 |
| 1 Gold Seal home charger..... | 19.50 |
| 1 American antenna assembly..... | 3.50 |
| H2508C—Complete..... | \$176.10 |

WATCH FOR THE LARGE SUPPLEMENT OF THIS CATALOGUE!

It Will Contain All The Items Not Shown in This Catalogue and Will Be Out in Two Weeks

DE FOREST

The Greatest Name in Radio

AUDION TUBES

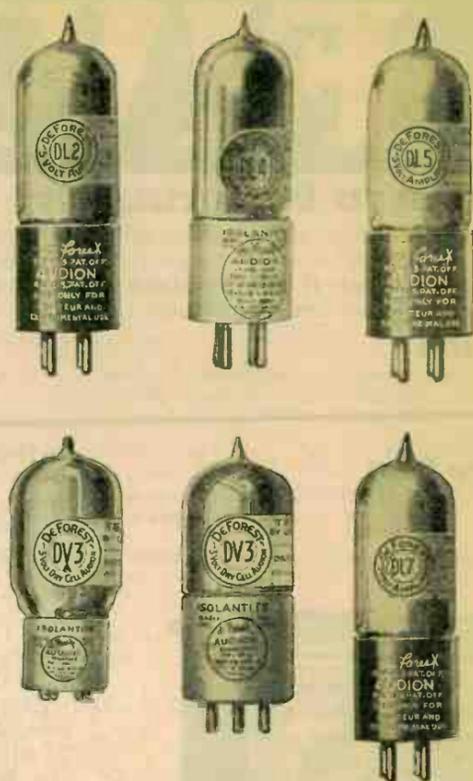
Uniform and Dependable. Packed in Attractively Lithographed Container.

Fulfills the ambition held by Dr. Lee DeForest since his invention of the tube upon which all present-day Radio depends.

Developed From the Original Tube Which Made All Radio Broadcasting and Reception Possible.

These DeForest tubes are the perfected product—the latest development of Dr. Lee DeForest, the inventor of the original Vacuum Radio Tube. The production of perfect tubes which are electrically uniform and precise requires the highest degree of mechanical craft

and accuracy. No one is better equipped to do this than the DeForest Company. The results given by these tubes in operation is additional proof. DeForest Tubes—the original and the best. Standard since 1906.

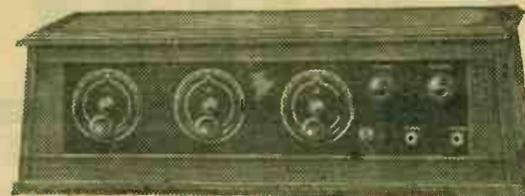


| Type | Function | Fil. Voltage | Fil. Amp. | Plate Voltage | Base | No. | List Price |
|-------|--------------------|--------------|-----------|---------------|------------|-------|------------|
| DV 2 | Detector-Amp. | 5 | .25 | 22½ - 90 | Navy Std. | H2606 | \$2.00 |
| *DV 5 | Amplifier | 5 | .25 | 45 - 135 | Navy Std. | H2607 | 2.00 |
| *DV 7 | Heavy Duty Amp. | 5 | .5 | 135 | Navy Std. | H2608 | 5.00 |
| DL 2 | Detector-Amp. | 5 | .25 | 22½ - 90 | Long Prong | H2843 | 2.00 |
| DL 4 | Special R. F. Amp. | 5 | .25 | 22½ - 90 | Long Prong | H2845 | 2.25 |
| *DL 5 | Amplifier | 5 | .25 | 45 - 135 | Long Prong | H2846 | 2.00 |
| DL 7 | Heavy Duty Amp. | 5 | .5 | 135 | Long Prong | H2847 | 5.00 |
| DV 3 | Detector-Amp. | 3 | .06 | 22½ - 90 | Navy Std. | H2848 | 2.25 |
| DV 3A | Detector-Amp. | 3 | .06 | 22½ - 90 | Small | H2849 | 2.25 |

*Grid Bias required for DV5 and DL5 at 135 Volts, plate—4½
*Grid Bias required for DV7 and DL7 at 135 Volts, plate—9

Valleytone Receivers

5-Tube
3 Dial Control
Exclusive Potential Balance Feature

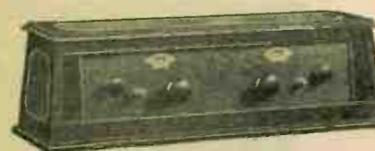


Musically right, electrically and mechanically correct and of a construction and finish which makes it an instrument ideal. The proper materials and parts are used and so placed as to secure perfect balance and highest efficiency. The first set to use the Toroidal coil. "No loss" is introduced to suppress oscillation. The patented and exclusive potential balance method prevents this and eliminates distortion. Two stages of amplification are provided, but it is seldom necessary to use the second stage. Valleytone Receiver Model 5—Stock No. \$80.00 H2691—List

SUGGESTED COMBINATION
1 Valleytone Model 5 Receiver. \$ 80.00
5 DeForest DL 5 Tubes. 10.00
1 100 Ampere Storage Battery. 20.00
2 45 volt 2303 Ray-O-Vac B Bat. 7.50
1 American Cone Speaker. 16.00
1 American Aerial Assembly... 3.50
Complete—H2691C—List. \$137.00
Model 52, 2 Dial Valleytone Receiver, complete. H2692C
—List **\$147.00**

Model 52 2 Dial

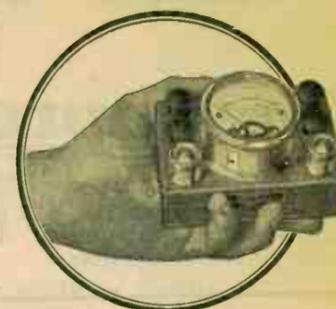
Employs same balance circuit as Model 5, but has 2 vernier dials. Extremely selective. Simple arrangement made for changing over to power tube is desired. Selectivity switch—one point for extreme selectivity, the other for broader tuning and greater volume. Valleytone Receiver No. H2692—List



\$90.00

Hoyt Radio Rotary Meter

The famous Hoyt line of radio meters manufactured since 1904 has now in the hearts of American fans a respect for the results they get.



The Hoyt Radio Rotary Meter is a precision 2½" moving coil voltmeter of unique and exclusive design.

In one convenient unit there are five ranges, that are necessary for all testing radio receiving sets, tubes, batteries, battery chargers and battery eliminators. Six large binding posts permit the making of all connections. The meter itself, is mounted on a solid mahogany base and is of the D'Arsonnal type with a resistance of 70 ohms per volt and allows the reading of voltage and current under working conditions may be made without breaking connections.

The meter is equipped with a large properly aged magnet of high grade magnet steel and are checked with the scales against frequency checked laboratory standards.

This meter embodies all the latest features in radio meters and at a price which makes it a necessity to the man who desires to work with radio.

Price, with two flexible leads and special prods for ready testing—H1564. **\$24.00**
List price

Leather case, extra. **\$5.00**
H1564A. List price.....

Special tube—base plug and leads for testing tube circuits, extra. H1564B. List price.... **\$1.50**

McCULLOUGH A. C. TUBES

Do away with all batteries on the filament lighting circuit. Can be used in any standard set with only a few simple changes in the wiring—plainly shown on instructions with tube.

Operate on the regular alternating current house wiring circuit

A step down transformer is used to reduce current to less than 3.5-volts. Is absolutely noiseless—A. C. hum being entirely eliminated. 4-prong base fits standard socket. Small 2-prong base at top of tube is for cathode heater connections. Exceptional signal strength with clarity and volume is obtained with these tubes. H2890—**\$6.00**
List

Special McCullough Transformer for use with this tube. **6.00**
H2891—List



MUSSELMAN Certified Tubes

The Tube with a Pedigree

These tubes are made for practically every need in radio reception. Laboratory built to a high standard.

The Characteristic Curve of each tube is included with the tube. This is a paper chart showing the actual characteristic curve of the tube in operation and giving the exact rating. Each tube is individually tested and the result shown on the accompanying slip.

The rating on every Musselman tube is guaranteed to be exact. When you buy these tubes you know exactly what you are getting. The whole story or "pedigree" tells the story.

- 5VA—Certified, 5 volt, ¼ amp, "X" base—No. H2915—List.....\$2.75
- 5VA*—Not certified, 5 volt, ¼ amp, "X" base—No. H2916—List.\$2.00
- 3VA—Certified, 3 volt, .12 amp, "X" base—No. H2917—List.....\$2.75
- 3VB—Certified, 3 volt, .06 amp., old style 199 base. No. H2918—List\$2.75
- 3VBX—Certified, 3 volt, .06 amp., "X" base. No. H2919—List \$2.75
- 5VCA—Power tube, certified, 5 volt, ½ amp. built with adapter—No. H2920—List\$6.75
- 5VC—Plain power tube, certified, "X" base—No. H2921—List.\$6.50
- 5PD—Power detector tube, certified, a combination power and detector tube, used without additional "B" battery—No. H2922—List\$5.00



MAGNATRON TUBES

- No. DX200A—5 volt, .25 ampere detector tube only. No. H2860—List.....\$5.00
- No. DX201A—5 volt, .25 ampere detector and amplifier. No. H2867—List.....\$2.00
- No. DX112—5 volt, .5 ampere power amplifier. Has extra "B" and "C" battery connection taps at top of base. No. H2871—List.....\$6.50
- No. DX171—5 volt, .5 ampere power amplifier. No. H2879—List\$6.00
- DX120—3.3 volt, .125 ampere dry cell power amplifier. No. H2872—List.....\$2.50
- No. DX199—3.3 volt, .06 ampere dry cell detector and amplifier (standard base). No. H2868—List\$2.25
- No. DX199—Dry cell detector and amplifier, (miniature base.) No. H2869—List.....\$2.25
- Rex—5 volt, 36 milliamperes. For use in "B" battery eliminators exclusively. No. H2870—List\$2.50



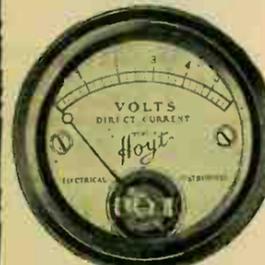
HOYT METERS for RADIO



"TIP-IN" VOLTMETER

A filament-control voltmeter for Radiolas Nos. 20, 25, 26, 28 and other similar sets equipped with tip-jacks. Does not have flexible leads but plugs in tip-jacks by two prongs. When plugged in, it is directly beneath the tuning controls. Will read in either horizontal or vertical position.

Type 17-B "Tip-in" Voltmeter, range D. C. 0-6 volts. No. H985—List\$7.50



FILAMENT VOLTMETER

Flush Mounting—D.C. Range 0-6 Volts

A standard flush-mounting type for permanent mounting on panel. Requires but one hole slightly over 2 inches in diameter. Held in place by bar and thumb screws at back. No other drilling necessary. Connect at two binding posts at rear. Black finish.

Type 17 Voltmeter. Range 0-6 volts. No. H986—List\$7.00
0-100 volts (10 volt scale). H987—List. 8.25
0-150 volts (10 volt scale). H988—List. 8.25
0-200 volts (10 volt scale). H989—List. 8.50



CELLCHECK METER

Enables the Radio owner to determine the charge in the cells of his storage "A" battery. Used exactly like the celltester for automotive battery use. The prods are pushed down in the terminals of each cell in the battery and the reading noted in the smaller meter conveniently mounted at the end of the handle. The meter has a center zero. Gives battery voltage under load conditions. Cellcheck, complete, No. H996—List\$2.50

POCKET D.C. VOLTMETER

Type 5062—A special pocket meter with absolute precision, used where the greatest accuracy is required. Two ranges 0-75 and 0-150 volts D. C. Also can be used on new power tubes, "A" battery and tube filament voltage. Comes in a 2¼-inch nickeled case.

Special Pocketmeter (with leather case).
Type 5062—No. H990—List.....\$11.50
Leads (furnished extra). No. H991—Per pair.—List\$0.75



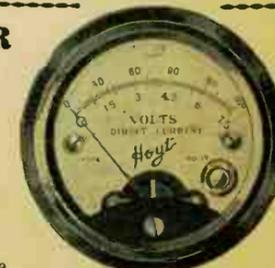
POCKET A.C. VOLTMETER

A necessity with "B" Eliminators and Battery Chargers for testing live-voltage. Comes in a nickeled case 2 inches in diameter, 1-inch deep. Hand calibrated scale 1½ inches long. Calibrated for A. C. readings but reads within less than one percent on D. C. above 90 volts. Meter, complete with leads, socket plug and case. Range 0-150. No. H992—List\$11.00
No. H993—Range 0-300—List 16.00

"A" and "B" VOLTMETER

A two-scale combination instrument which reads both "A" and "B" Battery voltages with one meter. The A-voltage shows at all times, "B" Battery voltage is found by pressing a small button. Built with two-color scale. Also furnished without button switch where it is desired to have the switch outside the meter. Flush mounting, D. C., double range 0-7.5 and 0-150 volts.

As the power necessary for the successful operation of a receiving set using D. C. tubes depends entirely on the "A" and "B" batteries, it follows that a method of testing these batteries is essential, and where many of the modern sets or attachments are made with the batteries quite inaccessible an indicator right on the set is advisable. Meter. No. H994—List\$9.00
Meter (without button switch). No. H995—List..... 8.25



QUALITY IS ESTABLISHED

COMPLETE LINES OF SETS ON PAGES 3 TO 18

CUNNINGHAM and RADIOTRON TUBES



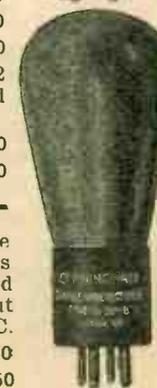
CX300A—Cunningham detector tube only. Fil. volts 5, fil. amps. .25, plate volts 45. Stock No. H2885—List\$5.00
 UX200A—Radiotron—Same as above. No. H2886—List 5.00
 CX300—Cunningham detector tube only. Fil. volts 5, fil. amps. .1, plate volts 15-25. Stock No. H2818—List.....\$2.50
 UX200—Radiotron. No. H2798..... 2.50
 C300—Cunningham. No. H2812..... 2.50
 UV200—Radiotron. No. H2802..... 2.50

UX201A—Radiotron. H2796..... 2.00
 C301A—Cunningham. H2813..... 2.00
 UV201A—Radiotron. H2803..... 2.00



CX12—Cunningham dry cell detector and amplifier. Fil. volts 1.1, fil. amps. .25, plate volts 135 max. Stock No. H2815—List.....\$2.50
 WX12—Radiotron. H2806 2.50
 C12—Cunningham. H2811.... 2.50
 WD12—Radiotron. H2801 ... 2.50
 C11—Cunningham. Same as CX12 but has base to fit sets equipped with special sockets.
 No. H2810—List.....\$2.50
 WD11—Radiotron. H2800.... 2.50

CX316B—Cunningham single wave rectifier, for use in rectifier units supplying amplifiers for high voltage loud speakers. Fil. volts 7.5, fil. amps. 1.25, output 65 milliamperes. Rectifies up to 550 volts A. C. Stock No. H2887—List.....\$7.50
 UX216B—Rectron. No. H2809..... 7.50



CX371—Cunningham power amplifier. Fil. volts 5, fil. amps. .5, plate volts 180 (max.) neg. grid volts 40.5. Stock No. H2888—List.....\$6.00
 UX171—Radiotron. No. H2889—List..... 6.00
 CX112—Cunningham detector and amplifier. Fil. volts 5, fil. amps. .5, plate volts 157.5 (max.). Stock No. H2892—List.....\$6.50
 UX112—Radiotron. No. H2807..... 6.50



CX299—Cunningham dry cell detector and amplifier. Fil. volts 3, fil. amps. .06, plate volts 90 (max.). Stock No. H2817—List.....\$2.25

UX199—Radiotron. No. H2797.
 C299—Cunningham. Old style base. No. H2814\$2.25
 UV199—Radiotron. H2804..... 2.25

CX220—Cunningham dry cell power amplifier. Fil. volts 3, fil. amps. .125, plate volts 135 (max.), neg. grid volts 22.5. Stock No. H2909—List.....\$2.50
 UX120—Radiotron. No. H2799.... 2.50



CX310—Cunningham heavy duty power amplifier. Oscillator—Fil. volts 7.5, fil. amps. 1.25, plate volts 350, plate amps. .06, output 7.5 watts. Amplifier—Fil. volts 6.75, fil. amps (max.) 1.25, plate volts (max.) 425. Stock No. H2896—List\$9.00
 UX210—Radiotron. No. H2805... 9.00

CX313—Cunningham full wave rectifier. Equivalent to two single wave tubes. Fil. volts 5, fil. amps. 2 (max.) A. C. volts per anode, 220 rms. Max. D. C. load current, 65 milliamperes. Stock No. H2894—List\$6.00
 UX213—Radiotron. No. H2808—List..... 6.00

CX-374: Glow Lamp for Plate Voltage Regulation

This tube develops 90 volts across its terminals on any current up to 50 milliamperes. When placed in parallel with the plate voltage supplied to the receiving set, and with proper regulating resistance in series, the voltage on the amplifier tubes cannot exceed 90 volts regardless of the number of tubes in use or of fluctuations in line voltage. No. H2897—List.....\$5.50

C-376: Ballast Lamp

This tube is designed for use in series with the primary of the transformer supplying "B" battery eliminators, and will maintain the output voltage constant despite variations in line voltage. No. H2898—List.....\$6.50

C-377: Protective Tubes

This tube is designed for protection against "shorts" in the plate circuit or radio receivers. It is designed to be connected in the "B" battery circuit and will protect radio tube filaments against any possibility of accidental burnout through wrong "B" battery connection or short circuits. No. H2899—List.....\$1.75

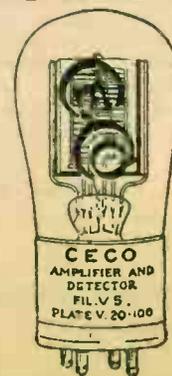


URECO TUBES EACH ONE GUARANTEED

U—Indicates Regular Base
 X—Indicates New Style Base

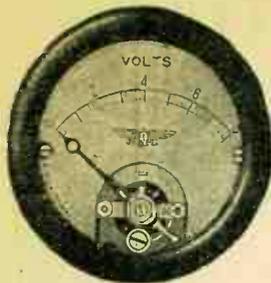
U 12—Dry Cell Tube, 1½ volt. H2823—List.....\$2.50
 X 12—Same Tube, New Base. H2826—List.... 2.50
 U199—Detector or Amplifier Tube, 3 volt. H2822—List 2.25
 X199—Same Tube, New Base. H2827—List..... 2.25
 U201—Detector or Amplifier Tube, 6 volt. H2821—List 2.00
 X201—Same Tube, New Base. H2833—List..... 2.00
 X120—Same Tube, New Base. H2834—List..... 2.50
 U200—Standard Detector Tube, 6 volt. H2820—List 2.50
 X200—Same Tube, New Base. H2820—List..... 2.50
 U112—Special Tube, last stage audio, 6 volt. H2825—List..... 6.50
 X112—Same Tube, New Base. H2828—List..... 6.50

CE-CO RADIO TUBES Both New Base and Regular

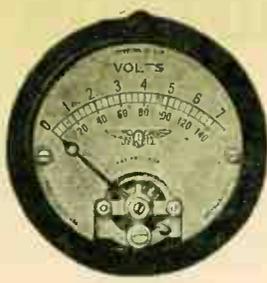


Ce-Co Tubes are excellent detectors and amplifiers and may be used on any set—radio frequency, audio frequency and reflex circuits. Every test, public and private, by nationally known laboratories and radio engineers of note, has proved decisively that Ce-Co Tubes are equal to the very best.
 Type A—Equivalent designation UV-201 \$2.00
 Tube. H2853—List
 Type B—Equivalent designation UV-199 2.25
 Tube. H2851—List
 Type C—Same as Type B with standard base. H2855—List 2.25
 Type E—Equivalent designation UX-120 2.50
 power amplifier tube. H2873—List.....
 Type F—Equivalent designation UX-112. 6.50
 Last stage audio tube. H2874—List.....

FOR AMERICAN TUBES SEE PAGE 94



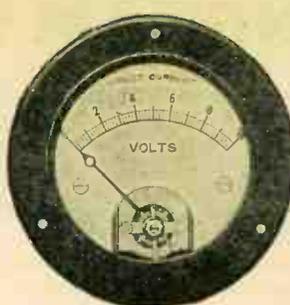
No. 135



No. 135-B



No. 140

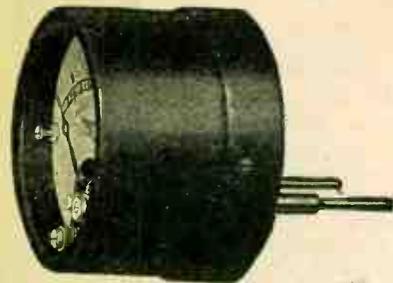


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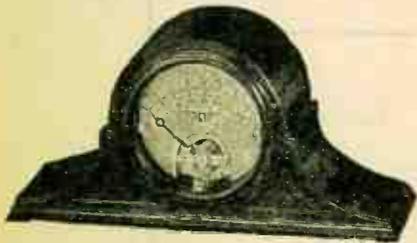


No. 84

JEWELL PRECISION METERS



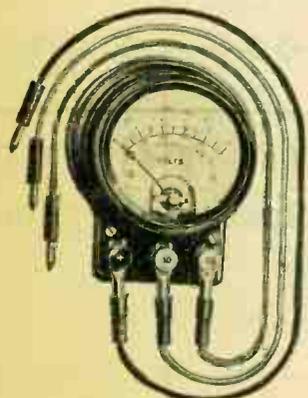
No. 135-A



No. 135-C



No. 57



No. 98

No. 135. For panel mounting. Case diameter, two inches with mounting clamp. Without switch.

0-3 amperes, No. H2260. 0-8 volts, No. H2263. 0-5 ampere, No. H2261. 0-10 volts, H2264. 0-5 volts, H2262—List price of each.....\$7.00

0-10 milliamperes, No. H2265. 0-15 milliamperes, No. H2266. 0-25 milliamperes, H2267. 0-50 milliamperes, No. H2268. 0-100 milliamperes, No. H2269. Each List\$7.00
0-100 volts, No. H2270—List..... 7.50
0-5-100 volts, H2271. 0-10-100, H2272—List.. 8.00
0-7.5-150, No. H2273—List 8.50

No. 135-B same as No. 135 except has double scale with push button switch for high scale reading. Low scale used for filament control.

0-5-100 volts, No. H2274 0-4-160 volts, No. H2276. 0-10-100 volts, No. H2275. 0-7.5-150 volts, No. H2277. Each List\$9.00

No. 140. Double reading panel voltmeter. Two-inch case diameter. Same as No. 135 only with wide flange to hold special self-contained switch with its off position.

0- 5-100 volts, No. H2278. 0-10-100 volts, No. H2279. 0-7.5-150 volts, No. H2280. 0- 4-160 volts, No. H2281. Each List\$9.50

No. 53. A very accurate instrument. Case diameter 2½ inches and flange diameter 3¼ inches. Silver etched dial and zero adjuster. Popular for Super-Hets and all large sets.

0-5 volts, No. H2282. 0-8 volts, No. H2283. 0-10 volts, No. H2284. 0-15 volts, No. H2285. 0-50 volts, No. H2286—Each, List.....\$7.50
0-100 volts, No. H2287—List..... 9.00
0-150 volts, No. H2288—List..... 9.50
0-3 amperes, No. H2289. 0-5 amperes, No. H2290. 0-10 amperes, H2291—Each List\$7.50

Milliamperes—0-5, No. H2292. 0-10, No. H2293. 0-15, No. H2294. 0-25, No. H2295. 0-30, No. H2296. 0-50, No. H2297. 0-100, No. H2298—Each List.....\$7.50

No. 55 gives absolute knowledge of "A" and "B" batteries and perfect filament control, two and three readings, patent self-contained switch. Same size as No. 53.

0-8 volts. 3 Reading, No. H2299. 0-10 volts. 3 Reading, No. H2300. 0-4, 160 volts, No. H2301. 0-10-100 volts, No. H2302. 0-7.5-150 volts, No. H2303—Each List.....\$10.00
0-7.5-30-150 volts, No. H2304. 0-8-30-160 volts, No. H2305—Each List\$12.50

No. 135-A. Two-inch high resistance voltmeter with pin jacks for plugging into Radiola, Victor, Brunswick and other sets. Has zero adjuster. Adjustable prods allow for variation in spacing of jacks.

0-5 volts, No. H2306. 0-7 volts, No. H2307. 0-50 volts, No. H2308—Each List\$7.50

No. 135-C. A beautiful portable for the home. Handsome bakelite case. Furnished with two leads with phone tips. May be plugged into Radiola, Victor and Brunswick sets. Also valuable for checking the batteries of any set.

0-7.5-150 volts. No. H2113—List.....\$10.00

No. 84. Voltmeter for "B" batteries. The full scale value of 50 volts will allow the checking of 45-volt "B" batteries, which should be discarded when they indicate only 35 volts. 22.5 volt "B" batteries should be replaced when they read 17 volts.

0-50 volts. No. H1591—List.....\$2.75

No. 85. Similar to above for testing dry "A" batteries.

0-40 amperes. No. H1582—List.....\$2.00

No. 98. For easy battery testing. The green lead, post and scale markings are for readings under 10 volts and the red for from 10 to 15 volts.

No. H2230—List\$13.50

No. 57. Similar to No. 98. Useful for all-around testing and lab. work. Bakelite case with binding posts for table or wall mounting. 0-10-100 volts—H2231. 0-12-120 volts—H2233. 0-7.5-150 volts—H2232. List price of each \$12.50
0-40 amperes and 0-30 volts (one instrument)—No. H2234—List.....\$15.00

No. 116. Similar to No. 57. Voltmeter for checking the delivered voltages of "B" Eliminators or power supplies. Special high resistance (800 ohms per volt)—requires very little current to operate. Shows the true voltage which cannot be obtained with the ordinary voltmeter.

0-50-250 volts. No. H2235—List.....\$30.00

JEWELL TRIO FOR TRANSMITTING.

The Jewell Transmitting Trio consists of all the necessary instruments for the amateurs for alternating, direct and radio frequency currents. Uniform in size, 3-inch body diameter, 3¼-inch flange.

No. 54. Direct Current Instruments.
Amperes—0-1, No. H2309. 0-3, No. H2310. 0-5, No. H2311. 0-10, No. H2312—Each List.....\$7.50
Volts—0-5, No. H2313. 0-6, No. H2314. 0-8, No. H2315. 0-10, No. H2316. 0-15, No. H2317. 0-25, No. H2318. 0-50, No. H2319—Each List \$7.50
Milliamperes—0-5, No. H2320. 0-10, No. H2321. 0-15, No. H2322. 0-25, No. H2323. 0-50, No. H2324. 0-100, No. H2325. 0-150, No. H2326. 0-200, No. H2327. 0-250, No. H2328. 0-300, No. H2329. 0-500, No. H2330. 0-1000, No. H2331—Each List.....\$7.50
0-1 milliampere. No. H2332—List.....\$9.00
Galvanometer, 50-0-50. No. H2333—List..... 9.00

No. 64. Antenna ammeter.
Amperes—5, No. H2334. 1, No. H2335. 1.5, No. H2336. 2, No. H2337. 3, No. H2338. 5, No. H2339. 10, No. H2340. 15, No. H2341—Each List\$12.00

No. 64. Galvanometer.
0-100 Galvanometer. No. H2342—List.....\$15.00
No. 74. A. C. Instruments.
0-10 volt, No. H2343. 0-15 volt, No. H2344—List\$7.50

Amperes—0-3, No. H2345. 0-5, No. H2346. 0-10, No. H2347. 0-15, No. H2348—Each List.....\$7.50
0-150 volt, No. H2349—List..... 9.50

Full Remittance Must Accompany All Orders for Jewell Meters. About Two Weeks Required to Ship Some of the More Unusual Readings. Orders Not Subject to Cancellation.

FOR OTHER JEWELL METERS SEE PAGE 55

Sterling Tube Testers and Reactivators

"Home" Tube Testers R-411 and R-400



Built especially for radio owners for testing large and small tubes, including power amplifiers and 300-A detectors. Tests the amplifying value of the tube. Simple to operate, exchange positions of tube and tester plug, adjust indicator hand to arrow through rheostat on receiver and press tester button. Indicator hand shows instantly whether tube is "good," "fair," or "poor." No computations to make. Instructions include

diagram for hooking up tester with batteries for small radio dealers' use in testing tubes at counter. Size, 4x7x2½ inches high. Weight, 28 ounces.

No. R-411 for 201A and 301A tubes, including power amplifiers. H2098—List..... **\$7.50**

No. R-400 for 199 and 299 tubes, including power amplifier and adapters. H2099—List..... **8.50**

"Professional" Tube Tester R-402



This tester is for checking tubes when received from source of supply and as a protection against unjust return of tubes sold over counter. For all tubes including the No. 171 power amplifiers and 301A detectors. It is equipped with a filament voltmeter and rheostat. Also has plate voltmeter to test "B" battery voltage. May be quickly

hooked up to "A" and "B" batteries under counter. Size 6½x8½x3 inches high.

No. R-402 including adapters for large and small UX and CX type tubes. H2101—List... **\$25.00**

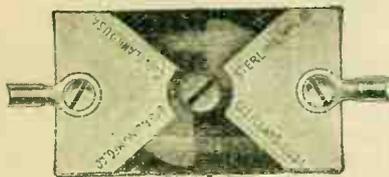
"Universal" Tube Tester R-406



Tests large and small tubes, also the new 300-A detectors. Milliammeter tests the plate current, shows the amplifying strength of tube. Combination voltmeter tests both the "A" and "B" battery voltages. In addition to testing tubes, the R-406 is valuable for locating defective circuit wiring, open transformers, poor contacts in sockets, etc. Is used either with "A" and "B" batteries

or "A" and "B" Socket-Power units. Wiring diagram of battery hook-up for counter testing furnished. Size 6½x7¼x3½ high. Standard package 6. No. R-406 "Universal" Tube Tester, including adapters. H2102—List..... **\$18**

Sterling Adjustable Balancing Microcondensers

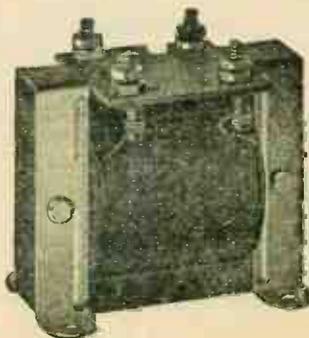


These condensers of micro size are made from the best grade clear mica, with high quality insulating bases, and have a minimum loss. Easy to install and adjust to the exact capacity required. The R-311 is especially suited to circuits where it is necessary to increase the grid to plate capacity for use of No. 199 or No. 299 tubes. The R-312 is the ideal condenser for equalizing the frequency of intermediate transformers and is very popular in single dial control receivers.

No. R-311, capacity approx. ¼ min. to 5 max. micro microfarads. H514—List..... **\$1.00**

No. R-312, capacity approx. 4/10 min. to 40 max. micro microfarads. H514B—List..... **1.50**

"Air King" Audio Transformer, R-310



Shell type core of high grade silicon steel. Elimination of interference from intercoupling or stray fields permits reasonably close spacing. Coil is machine wound from high grade wire with ample insulation between each layer and the winding is designed to minimize the effects of internal capacity.

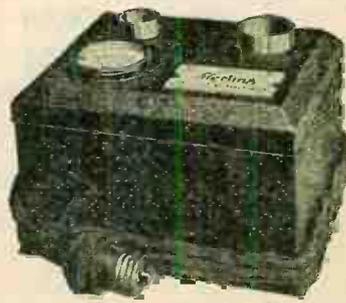
Ratio 3½ to 1. Resistance—Primary 850 ohms, Secondary 3300 ohms. Size 2½x1½x2¼ high. Net weight 9 oz. Individually boxed. No. R-310 Audio Transformer. H1234—List..... **\$1.75**

Combination Tube Tester and Reactivator No. R-409 A. C.



Operates from 110 volt A. C. 50-60 cycle line. Built especially to test all tubes and reactivate those that are thoriated. Used as a tester when tubes are purchased or sold and as a profit maker for store or service man. Will test large and small tubes for amplification, including the new power tubes. Equipped with rheostat by which filament voltage is set at 3.0 or 5.0 volts and plate voltage automatically adjusted to the correct amount for testing. Fluctuation in A. C. line voltage does not affect accuracy of test. Filament emission meter, in conjunction with switch lever and "Test," "Medium" and "High" taps, tests emission and shows amount of improvement after reactivation. Plate milliammeter readings obtained by pushing button, show tube amplification. Size, 6½x9½x3½ inches high. R-409 A. C. Combination Tester and Reactivator. H2097—List..... **\$30**

"Metered" Tube Reactivator No. R-403



For large and small tubes, including 300-A detectors and No. 171 amplifiers, having thoriated filaments. One of the distinct advantages of the Sterling Reactivator is its emission meter which enables the user to determine instantly by test whether a tube needs reactivation, and also to what degree the filament emission has been restored by

the process. Size 6x7½x5 inches. Handle on back. Frostine finish, nickel trimmings. Adapter for small UX and CX tubes included.

No. R-403—110 volt, 50-60 cycle. H2103—List..... **\$12.50**

No. R-403—110 volt, 25-40 cycle. H2104—List..... **14.00**

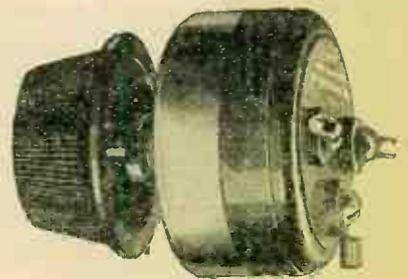
"Midget" Reactivator No. R-225



This simple renewer of filament emission is built particularly for the set owner who wants a low priced yet effective instrument for servicing his radio tubes at home. The R-225 has all the advantages offered by any rethoriated device not meter equipped, and in addition it has the unique feature of two slots in each socket—one for flashing the tube and the

other for aging it. Contains a highly dependable transformer, which is essential to dependable results. Separate sockets provide for both large and small tubes. Black Japan finish. Weight 2¾ lbs. net. Size, 3x3½x5 inches high. No. R-225—Reactivator. H2096—List..... **\$3.75**

"Soft Tread" Rheostats



Bakelite, nickel case, dust proof, requires one panel hole. Smooth running and noiseless.

| | | | List Price |
|------|---------|-------------------------------------|-------------------|
| R314 | 4 ohms | 1½ amp. | H193 \$1.25 |
| R305 | 6 ohms | 1 amp. | H188 1.25 |
| R315 | 10 ohms | ¾ amp. | H194 1.25 |
| R316 | 20 ohms | ½ amp. | H198 1.25 |
| R307 | 30 ohms | ¼ amp. | H190 1.25 |
| R308 | 50 ohms | ¼ amp. | H191 1.25 |
| R309 | 490 ohm | Potentiometer, built in same style. | H192 2.00 |

STERLING IS ALL THAT THE NAME IMPLIES

Voltmeters
Ammeters

Sterling METERS

Voltammeters
Charge Indicators

POCKET VOLTMETERS



- (For testing dry cells or storage batteries. Show polarity)
- No. 33. For testing voltage of individual cells. 0-3 volt scale, 1/10 volt divisions. H1576—List.....\$1.25
 - No. 34. For testing voltage of "A" batteries, dry or storage. 0-10 volt scale, 1/5 volt div. H1574—List.... 1.25
 - No. 34B. For testing 22½ volt dry "B" batteries. 0-30 volt scale, 1 volt divisions. H1577—List..... 1.50
 - No. 34C. For testing voltage of 22½ and 45 volt dry or storage "B" batteries. 0-50 volt scale, 1 volt divisions. H1575—List..... 2.25
 - No. 27. For Storage "B" batteries—designed especially for measuring voltage of 24 cell (48 volt) wet batteries in use or on charge. Also tests up to 3 units of 22½ volt dry batteries connected in series. 0-75 volt scale, 2½ volt divisions. H1569—List..... 2.50
 - No. 35. For testing total voltage of several "B" battery units connected in series. 0-120 volt scale, 5 volt divisions. H1571—List..... 3.50
 - No. 36. Combination voltmeter for testing both "A" and "B" batteries. 0-50 volt scale, 2½ volt divisions, 0-10 volt scale, ½ volt divisions. H1573—List..... 3.50
 - No. 38. For storage "B" batteries—designed especially to include 48 cells (96 volts) testing whether batteries are in use or on charge, or to measure higher voltages up to 150. Will also measure 4 to 6 units of 22½ dry "B" or equivalent. 0-150 volt scale, 5 volt divisions. H1565—List..... 3-50

- No. 39. Combination Voltmeter—to measure the maximum voltages now used for "B" battery receivers. Two spurs and the double scale are provided. Tests up to 48 cells (96 volts) of "B" storage, whether batteries are in use or on charge, or as many as 7 units of 22½ "B" dries on 0-160 scale. The 0-8 scale is for either dry or storage "A" battery testing. 0-160 volt scale, 5 volt division, 0-8 volt scale, ¼ volt divisions. H1566—List.....\$4.00

POCKET AMMETERS

- (Universally used for testing dry cell "A" batteries)
- No. 24. 0-35 ampere scale, 1 ampere division. H1570—List.....\$1.00
 - No. 25. 0-60 ampere scale, 2 ampere division. H1599—List..... 2.25

POCKET VOLTAMMETERS

- (A combination of the Voltmeter and Ammeter in a single case)
- No. 44. For testing amperage of dry cell "A" batteries and voltage of both dry cell and storage "A" batteries. 0-35 ampere scale, 1 ampere divisions, 0-10 volt scale, 1/5 volt divisions. H1572—List.....\$1.50
 - No. 45. For testing amperage of dry cell "A" batteries and voltage of either dry or storage "B" batteries up to 50 volts. 0-35 ampere scale, 1 ampere divisions, 0-50 volt scale, 1 volt divisions. H1578—List..... 3.50

6-Volt "A" Battery Charge Indicator

Both Pocket and Push Button Panel Type

Applied to any 6-volt "A" storage battery, this indicator shows at a glance whether the battery needs charging, or when the battery on charge has been charged enough. It places a current load on the battery greater than that drawn by all the tubes in any radio set. Gives a true reading as to the battery's ability to deliver and sustain voltage to operate the set. The surest, quickest and safest way to test a radio "A" storage battery.



No. 32—Pocket type. Nickel finish. H1600—List.....\$2.00



No. 1632—Push button panel type. Black dial, nickel rim. H1601—List.....\$3.00

Push Button Panel Type

Sterling "A" Battery Trickle Charger

No. R-101

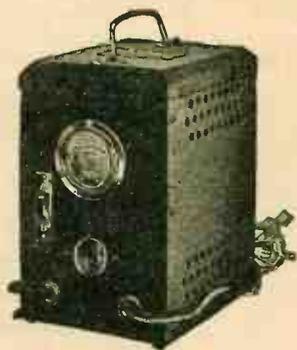


For owners of 6-volt and 4-volt storage "A" batteries, this new Sterling continuous charger offers the utmost in convenience, safety and efficiency. It operates on 110-volt, 50-60 cycle A. C. Both charging and receiving are controlled from a combination switch in the trickle unit. When "On Battery," the battery is being charged continuously and when the switch is moved to "On Set," the charging is automatically cut off and the "A" current turned on for receiving. A glance at the indicator instantly removes any doubt as to whether or not the charger is working efficiently. Reliable charging rates of 2/3 ampere on 6-volt battery and ½ ampere on 4-volt battery, insure an adequate "A" current supply at all times. The R-101 Sterling contains a high grade transformer, is well insulated and noiseless. Will fit any compartment that will accommodate three No. 6 dry cells. Finished in attractive dark green frostine, nickel trimmings. 5-foot cord, four 36-inch battery leads. Size, 3¾ inches wide, 6 inches high, 5¼ inches deep.

- No. R-101, for 110 volt, 50-60 cycle A. C. only, not including bulb. H1602—List.....\$10.00
- With 1 ampere Tungar bulb. H1602B—List..... 14.00

Sterling Combination "A" & "B" Charger

Bulb Type No. R-111



For 6-volt radio "A" and up to 96-volt "B" storage batteries. None of the wires that connect the battery to receiver need be disturbed while charging "A" or "B". Charger and battery can be left permanently hooked together. The snap switch sets it instantly for "A" or "B" charging. Equipped with a Sterling ammeter which shows the charging rate and indicates the "B" charge. Coils are wound so as to maintain a steady maximum rate in spite of normal fluctuation in 110 A. C. line voltage. Absolutely noiseless in operation and protected against accidental overload to bulb or windings by replaceable fuse.

Operates from 110-volt A. C., 50-60 cycle. Charges 6-volt "A" at 2 ampere rate or 24 to 96-volt "B" at 1/10 to 1/4 ampere, depending on wattage of lamp used.

Size 5¾ inches wide, 7 inches long, 9 inches high. Dark green frostine finish, nickel trimmings. Net weight complete, 11½ pounds.

- No. 111 Charger, not including bulb. H1604—List.....\$14.00
- With 2 ampere Tungar bulb. H1604B—List..... 18.00

Sterling 6-Volt "A" Charger—Bulb Type No. R-113

This is a compact unit equipped with indicator which shows "Off" and "Charging." High grade transformer and protective fuse. Charging rate 2 amperes. Furnished for 110-volt, 50-60 cycle only. Size 7x5½x5¼ inches high. Finish, black frostine.

- R-113—Without bulb. H1603—List.....\$9.50
- Tungar 2 amp. bulb. H3340—List.....\$4.00



READ ABOUT THE STERLING "B" UNITS ON PAGE 86

Portable Radio Service Set

The most complete portable service set for the radio trouble shooter. Every live radio dealer should have this outfit. It will answer any requirements on any radio service call. The battery compartments will hold four regular dry cells, six 2 1/4-volt "B" batteries and three 7 1/2-volt "C" batteries with leads for connecting the batteries to the terminal block. Pin tip jacks provided for all voltages for A, B and C connections. All leads are 6 feet long and supplied with pin tips. A milliammeter with a reading of 14 m. a. for tube testing, 70 m. a. for plate or "B" eliminator output, and a 7-ampere range for total filament current or charging rate. A voltmeter has a low range of 7 volts for "A" battery testing and high ranges of 70, 140 and 280 for "B" voltages, has a resistance of 800 ohms per volt. Suitable for "B" eliminator testing. A 60-ohm rheostat and a UX socket for X201A tubes, also supplied with an adapter for 199 type tubes. Don't neglect your service calls. No. 117 Service Set less tools and batteries. H2091—**\$78.00**
List



TUBE CHECKER

Tells instantly, tubes that will not function and those that are too low to be of value. Every dealer should have one. Protect yourself and your customers by checking all tubes at time of sale. Does not give a complete story of the tube, but the main characteristics. Type 110 Jewell Tube Checker. No. H2111—List



the outfit. 120 Tester. No. H2090—List

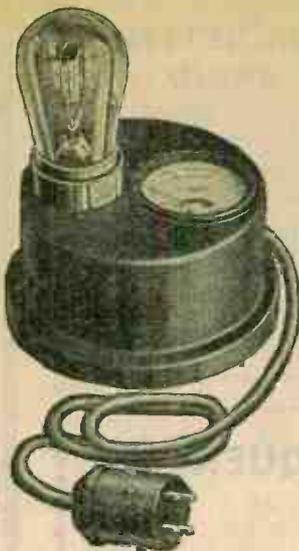
B ELIMINATOR TESTER

Many "B" eliminators get slightly out of adjustment in shipping, due to jars and shocks. They should be tested and again adjusted before being sold. With this tester you can set them properly. A chart of tube plate currents comes with the outfit. 120 Tester. No. H2090—List



the outfit. 120 Tester. No. H2090—List

Jewell Testing Instruments



JUNIOR Tube Checker

Tells instantly if your tubes are up to standard. If you are now having trouble use this checker on your tubes. Tells immediately the condition of tubes. Tests all three and five-volt tubes. Type 107 Junior tube checker, complete with cord, plug and adapter. No. H2112—**\$12.50**
List



No. 95. A complete testing instrument in connection with a radio receiving set. Particularly adapted for the taking of characteristic curves on vacuum tubes, the only extra equipment being the necessary batteries. The several instruments, any of which may be used independently, include a 0-1.2 filament ammeter, a 0-6 filament voltmeter, a 0-150 plate voltmeter, a 0-10 plate milliammeter and a 25-0-10 grid voltmeter. No. H2110—**\$75.00**
List

ERLA CIRCLOID BALLOON

This new Balloon Coil is to radio what balloon tires are to automobiles. This wonderful new invention means four things:

1. Greater range.
2. More volume.
3. Increased selectivity.
4. Better tone quality.

A MARVELOUS INVENTION. The addition of this Balloon Circloid will improve any radio frequency stage. The circloid itself is a self-supporting, air-spaced, low loss coil of unprecedented efficiency, which is characterized by an entirely self-contained field and a total immunity to external interference.

The Balloon Circloid does not pick up signals or static. It amplifies only signals received from the preceding tube.

Three coils packed in factory sealed carton constitute this essential kit. For .00035 condensers. H2636—List..... **\$12.00**



THOROLA Low-Loss Doughnut Coils

For Increased Efficiency



The magnetic fields from radio frequency circuits are completely within the Doughnut Coil, eliminating all possibility of inter-action from stray magnetic forces. Self capacity is reduced to a minimum, effecting lower loss and giving greater selectivity with true reproduction. No. 33 coils specified in "RADIO" for use in building the new Infradyne.

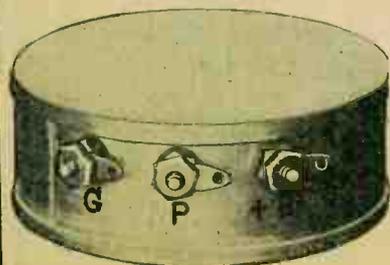
No. 33 set of coils will replace the coupler, 1st radio and 2nd radio coils in all ordinary R. F. receivers.

No. 33 (set of 3 coils) for use with .00035 cond. No. H3201—**\$6.00**
List

No. 43 (set of 3 coils) for use with .0005 cond. No. H3202—**6.00**
List

SHIELDED TUNED TRANSFORMER COIL

Used for multiple stage tuned radio frequency circuits in which oscillation is controlled by variation of the filament rheostat. Here are some of the many advantages of this new design: Tunes sharper, prevents stray fields from escaping, prevents local interference from being picked up, reduces excessive oscillation, simplifies wiring, and has uniform inductance and may be used with single control condensers. A .00035 MF condenser should be used for tuning, which will cover wave lengths from 190 to 550 meters.

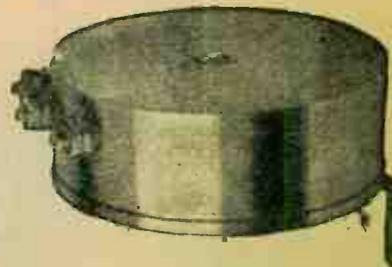


Transformer coil **\$2.00**
No. H4411—
List

AALCO SHIELDED COIL

T. R. F. TRANSFORMERS

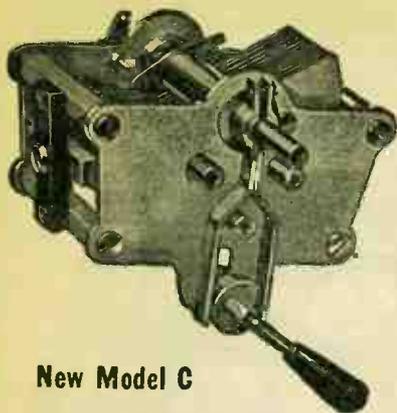
This latest development in the field of T. R. F. transformers, accomplishes in a simple, efficient way that which other coil manufacturers have strived to obtain for years, namely: ease of oscillation control, no coupling between stages, no direct pickup of interference and signals by coils themselves, and small mounting space required. For .00035 condensers. No. H4357—**\$2.00**
List



DON'T PASS UP THE KITS ON PAGES 89, 90 AND 91

Hammarlund Precision Condensers

FOR BETTER RADIO



New Model C

The new Model "C" Hammarlund Condenser is the product of 14 years' experience, making precision instruments. It is a masterpiece of engineering efficiency; acclaimed by experts everywhere.

This is the highest test condenser that has ever passed through the "Radio News" Laboratory. All the new low loss and minimum resistance features are embodied in its design. A cam adjustment controls the vernier movement, giving a ratio of about 1-50. Very high grade condenser.

STRAIGHT LINE FREQUENCY

SINGLE TYPE ONLY

| | | |
|----------------------|------------|--------|
| SLF 23 Plate .0005 | H1700—List | \$5.00 |
| SLF 17 Plate .000375 | H1701—List | 4.75 |
| SLF 13 Plate .0003 | H1702—List | 4.65 |
| SLF 11 Plate .00025 | H1703—List | 4.50 |

DUAL TYPE

MODEL "C"

| | | |
|----------------------------|------|--------|
| H1745—11 plate .00025 MFD. | List | \$7.00 |
| H1741—15 plate .0003 MFD. | List | 7.50 |
| H1747—17 plate .00035 MFD. | List | 8.00 |
| H1748—23 plate .0005 MFD. | List | 8.50 |

TRIPLE TYPE

MODEL "C"

| | | |
|-----------------------------|------|---------|
| H1745A—11 plate .00025 MFD. | List | \$10.00 |
| H1746A—15 plate .0003 MFD. | List | 11.00 |
| H1747A—17 plate .00035 MFD. | List | 12.00 |

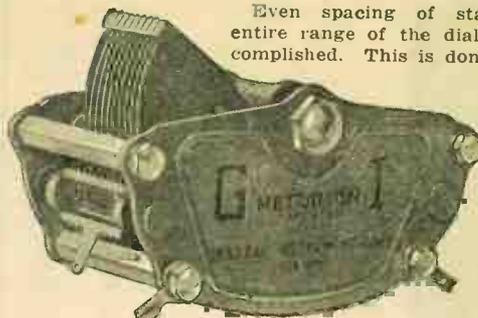
Triple Type Not Made In .0005 Capacity.

Metralign S L T

Straight Line Tuning

Variable Condensers

Even spacing of stations throughout the entire range of the dial has at last been accomplished. This is done by a scientific curve cut given to the stator plates to secure the required tuning curve. Brass plates, chemically treated, rigidly held by supporting members. Hard steel shafts. Small size, designed for single hole and standard three pillar mounting.



| Max. Cap. | Min. Cap. | Stock | List Price | Ser's | Max. Cap. | Min. Cap. | Stock | List Price | |
|-----------|-----------|-------|------------|--------|-----------|-----------|-------|------------|--------|
| 91A | 100 | 9 | H1961 | \$4.25 | 91D | 300 | 16 | H1964 | \$4.75 |
| 91B | 150 | 10 | H1962 | 4.25 | 91E | 350 | 18 | H1965 | 4.75 |
| 91C | 250 | 14 | H1963 | 4.50 | 91F | 500 | 21 | H1966 | 5.50 |

Variable Audio Transformer

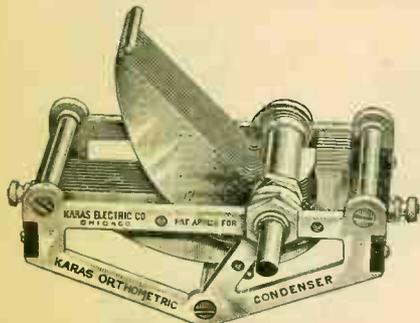
Now for the first time more than two stages of Audio Amplification easily can be used by even a novice. This transformer is adjustable—merely turn the knob until reception is clearest and sharpest—the result is perfect co-ordination between transformers and tube; positive absence of any signs of squeals and howls; perfect reproduction. Magnetically and statically shielded. General Instrument Variable Audio Transformer. H1967

\$10.50



NEW KARAS HIGH EFFICIENCY PARTS

ORTHOMETRIC CONDENSER



Separates ALL adjoining wavelengths by EQUAL distances on the dial. EVERY point of a 180 degree—100 division dial, covering the 100 wavelengths between 200 and 600 meters, is EQUALLY SEPARATED from its adjoining point in both directions by 10 Kilocycles—EXACTLY the same as wave lengths are separated and allotted by the Government.

300 meters—1,000 kilocycles—comes in where it BELONGS—at 50 on the dial. KDKA, 309 meters—970 kilocycles—comes in at 53 on the dial.

There is NO CROWDING whatever of stations on ANY part of the dial. EVERY point on the dial from 1 to 100 is a separate wavelength. This wide, even separation of wavelengths makes tuning EXTREMELY easy. The lower and higher wavelengths are actually given equal separation. Instead of being crowded into a short space any station comes in equal distance from the next closest station at the rate of 1 dial degree to 3 meters in wavelength.

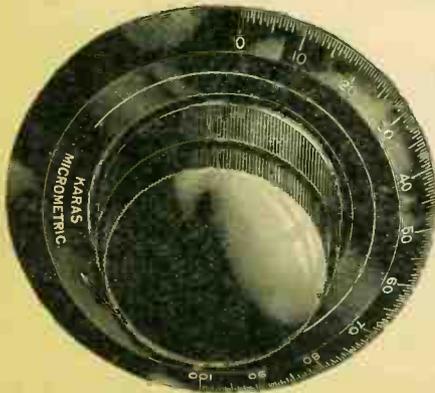
Mechanical, as well as scientific construction, of the finest. Works easily and smoothly and gives in operation, the best of results as claimed.

| | | |
|---------------------------------|----------------|--------|
| 23 plates .0005 MFD. Capacity. | No. H4370—List | \$7.00 |
| 17 plates .00037 MFD. Capacity. | No. H4371—List | 6.75 |
| 11 plates .00025 MFD. Capacity. | No. H4372—List | 6.50 |
| 7 plates .00014 MFD. Capacity. | No. H4373—List | 6.50 |
| 5 plates .0001 MFD. Capacity. | No. H4374—List | 6.50 |

Micrometric Dial

This precision vernier dial permits the fine hair's-breadth tuning so essential to proper operation of a super-heterodyne receiver, or one of the balanced tuned radio frequency type.

The ratio is 63 to 1 and tuning may be accomplished to 1/1000th of an inch. It is a genuine pleasure to tune with such a dial. There is no turning back and forth around a division point where a station is faintly heard—no trying to land on it by luck—you tune to it gradually until full volume is reached. Made black Bakelite. Size 4 1/2 inches. Mi-



Harmonik Transformer

You secure marvelous reception with these new Harmonik A F amplifying Transformers. They amplify with GREAT VOLUME the extremely low frequency tones that other transformers fail to amplify at all—KARAS HARMONIKS also amplify EQUALLY all of the many vital harmonics and rich overtones that combine to form musical sounds.

There is no muffling of sounds—no fuzz on the edges of words—no thin, squeaky, distorted tones. Instead, EVERY tone is clean-cut, separate and distinct from every other tone—natural.

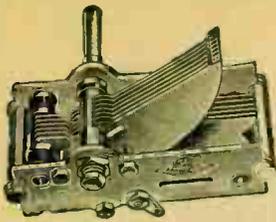
The result from these transformers on any radio set of any and all efficient circuits is an outpouring from the loud speaker of soft, rich, round, full, mellow tones such as you have never before heard from any radio—a surprising volume of REAL MUSIC to which it is a delightful pleasure to listen.

The secret of the strikingly wonderful reception of these transformers has been worked out in the Karas Laboratory and it is now possible to obtain their wonderful results on most sets. Harmonik Transformer No. H1259—List

\$7.00

LOOK AT THE KARAS EQUAMATIC KIT ON PAGE 90

AMSCO ALLOCATING CONDENSERS



STRAIGHT FREQUENCY LINE
A variable condenser with plates so designed that the resonant or tuned frequency of the circuit will be raised or lowered the same amount for each dial division. No crowding at long or short waves. A desirable low loss instrument.

Single Units

| | | |
|--|-----------|-------------|
| No. 1111-11 plates, capacity .00025 mfd. | No. H1696 |\$2.75 |
| No. 1213-13 plates, capacity .0003 mfd. | No. H1690 | 2.75 |
| No. 1217-17 plates, capacity .00035 mfd. | No. H1691 | 3.00 |
| No. 1223-23 plates, capacity .0005 mfd. | No. H1692 | 3.50 |

Siamese Units

| | | |
|--|-----------|-------------|
| No. 1222-11 plates, capacity .00025 mfd. | No. H1697 |\$5.50 |
| No. 1226-13 plates, capacity .0003 mfd. | No. H1693 | 5.50 |
| No. 1234-17 plates, capacity .00035 mfd. | No. H1694 | 6.00 |
| No. 1216-23 plates, capacity .0005 mfd. | No. H1695 | 7.00 |

STRAIGHT LINE TUNING

Specially designed modified frequency condenser, which allocates dial into equal division. Rugged construction, common stator, insulated bearings make this condenser electrically shielded.



Single Units

| | | |
|---|----------------|-------------|
| No. 514-14 plates, capacity .00025 mfd. | No. H3050-List |\$3.00 |
| No. 516-16 plates, capacity .0003 mfd. | No. H3051-List | 3.00 |
| No. 518-18 plates, capacity .00035 mfd. | No. H3052-List | 3.25 |
| No. 526-26 plates, capacity .0005 mfd. | No. H3053-List | 3.75 |

Siamese Units

| | | |
|---|------------|-------------|
| No. 1014-14 plates each, capacity .00025 mfd. | H3054-List |\$6.00 |
| No. 1016-16 plates each, capacity .0003 mfd. | H3055-List | 6.00 |
| No. 1018-18 plates each, capacity .00035 mfd. | H3056-List | 6.50 |
| No. 1026-26 plates each, capacity .0005 mfd. | H3057-List | 7.50 |

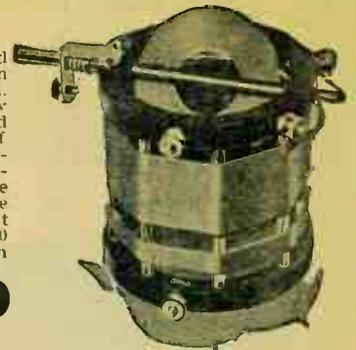
Triple Units

| | | |
|--|-----------|--------------|
| No. 1514-14 plates, capacity .00025 mfd. | No. H1682 |\$12.00 |
| No. 1516-16 plates, capacity .0003 mfd. | No. H1683 | 12.00 |
| No. 1518-18 plates, capacity .00035 mfd. | No. H1684 | 13.00 |
| No. 1526-26 plates, capacity .0005 mfd. | No. H1679 | 15.00 |

BRUNO COILS

Low Loss Coupler No. 77

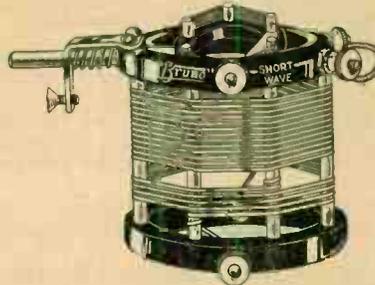
Bruno Low Loss couplers and tuners represent the last word in tuning instruments of this kind. They are constructed of extremely low loss materials, the rotor and stator forms both being made of Quartzite glass. The newly designed BRUNO tickler coil permits regeneration without the usual howls and squeals that are found in the ordinary 3-circuit tuner, the tuning range being 160 to 600 meters when tuned with .0005 condenser. Single hole mounted.



No. H4065-List..... **\$5.50**

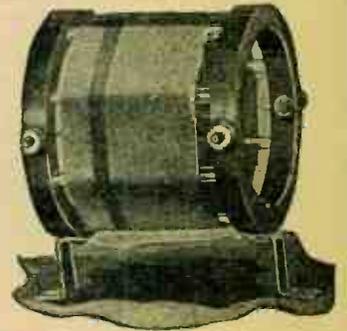
Tuning Coil No. 99 Jr.

This tuner has the same features as the No. 77 but is of much smaller design, going into a space two and one-half inches square. It is ideal for small sets where space is needed, 200 to 575 meters. Range with .0005 condensers. No. H4066-List..... **\$5.50**

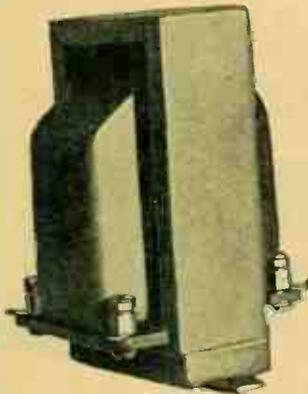


Radio Frequency Coil No. 55

This coil is of the latest low loss design and is wound on forms of Quartzite Glass of cylindrical shape. Due to its design and construction, it has extremely low loss and is capable of much higher efficiency than the ordinary transformer of this type. Tunes from 200 to 575 meters with .0005 condenser. No. H1215-List..... **\$3.00**



PACENT Superaudioformer



You will know radio reception as it should be after installing one or a pair of these shielded Superaudioformers. It is big and husky (as it should be) to give pure, natural and full tonal quality.

Important Features

- Completely shielded.
- Laminations securely clamped together by one-piece frame.
- Possibility of laminations vibrating further guarded against by filling with a special wax compound.

Tested for its ability to amplify under actual working conditions.

Tested for breakdown at 1500 volts D. C.

All leads covered with high grade spaghetti. They terminate at both binding posts and solder tabs and are separated by a bakelite strip. Connections can be made by soldering or by means of the binding posts.

Simple two-hole mounting in upright position or on either side by means of special clamp.

Special iron in core, a correctly designed coil and rugged mechanical assembly make for true tone quality.

Handsomely finished in dull bronze—a beautiful transformer for the finest receivers.

Low ratio audio—27-A shielded. No. H2236-List.....\$7.50

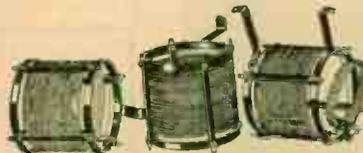
Output—Ratio for output circuit keeps dangerous high voltages of "B" batteries out of delicate windings of speaker. Improves tonal qualities when used with cone speakers. 27 B Shielded. No. 2237-List..... 7.50

Choke—50 Henry. Can be used with B eliminators, power amplifiers or any place where high efficiency is desired. No. H2238-List..... 6.50

AERO COIL SUPER-SENSITIVE

All AERO coils are of a special construction, which is patented. Their perfect design practically eliminates coil distortion and also makes a tremendous improvement in volume, tone and selectivity. As such unusual results have been obtained from them, the government is now using them as well as many university laboratories. Replace your present inductances with these coils if you desire better reproduction and selectivity.

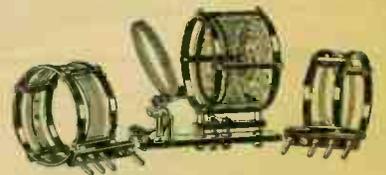
TUNED RADIO FREQUENCY KIT



Three matched units. Antenna coupler has variable primary. Uses .00035 condenser, 8 page color circuit, layout and instruction sheet for building super-sensitive 5-tube Aero-Dyne included. No. TRF120. H3289-List..... **\$12.00**

SHORT WAVE KIT

Range 15 to 130 meters. Completely interchangeable. Includes 3 coils and base mounting, covering U. S. bands 20, 40 and 80 meters. Uses .00014 condenser on secondary, and .00025 on feed back control. No. LTW125. H3291-List..... **\$12.50**



INTERCHANGEABLE COILS

Increases range of short wave tuner. Combined range of 2 coils 125 to 550 meters. Fits same base and uses condensers of short wave kit. No. INT4. H3292-155 to 250 m. List.....\$4.00
No. INT5-H3292A-250 to 350m. List..... \$4.00



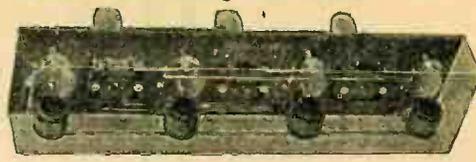
PACENT POWERFORMER IS THE LEADER. SEE PAGE 31

REMLER Specified by Sargent for the INFRADYNE RECEIVER

AMPLIFIER A New Amplifier Can Be Installed On Many Sets Already in Use



Remler Infradyne Amplifier Unit ready for installation in Infradyne Receiver.



Showing Infradyne Receiver with Remler Amplifier Installed.

The Remler No. 700 Infradyne Amplifier is a product of advanced radio research. It retains every advantage of multi-tube amplification at a fixed frequency and eliminates undesirable features present in other receivers of this general type.

Inductance Coils and Condensers are designed and constructed to meet the exact requirements of this circuit. REMLER New and Improved Sockets insure absolutely clean and positive tube contacts. Maximum efficiency of operation is obtained by scientific arrangement of parts and wiring, which prevents energy leakage.

Controls are substantially mounted on a Bakelite panel. The Amplifier is enclosed in a polished and lacquered copper case, which acts as an effective shield, thus eliminating direct signal pick-up by the transformer windings.

Specified by the inventor for use in the Sargent Infradyne Circuit. Can be added to many sets now on the market.

EIGHT REASONS FOR THE INFRADYNE

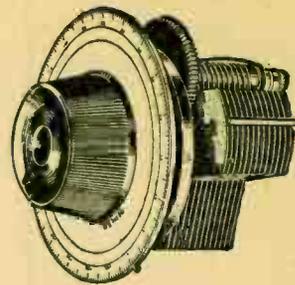
- 1 Reception is free from long-wave commercial station interference common in the past to ultra sensitive receivers.
- 2 Objectionable features due to harmonic generation are eliminated.
- 3 Reception on one setting only of each dial.
- 4 Sensitivity is fully equal to that of any known receiver.
- 5 Extraordinary selectivity.
- 6 Only 135 volts "B" required. Can be used for months on heavy duty dry "B's."
- 7 Exceptionally quiet operation on both local and distant stations.
- 8 Will bring in stations which would be lost in the "noise" level on any other receiver.

No. 700
REMLER
INFRADYNE
AMPLIFIER
WITHOUT TUBES
H2217

25⁰⁰

LIST

REMLER TWIN ROTOR CONDENSER



Pronounced by radio engineers to be one of the best condensers for critical adjustment. Has practically no capacity. A minimum adjustments. Complete with dial and marker.

.00035 with dial—H353— **\$5.00**
List

.0005 with dial—H354— **5.00**
List

REMLER IMPROVED SOCKET



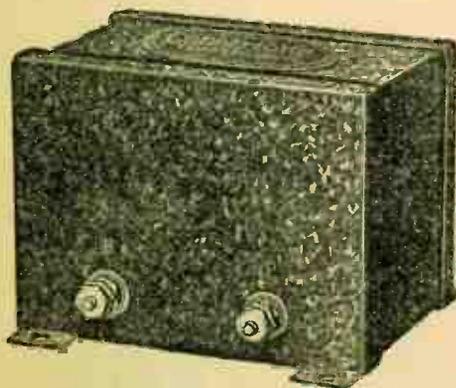
Fits
New
Type
Tube
Base

Tube prongs fit into the four holes. Extra connection for grid bias on power tubes. Fits both new and regular tube bases. H1817—List..... **50c**

JEFFERSON LINE OF RADIO PARTS

CONCERTONE TRANSFORMER

Even amplification over entire range and eliminates howls. It is heavily insulated and sealed. Can be used with new power tubes. Size 3 1/2" long, 2 3/4" high and 3 1/4" wide. Concertone Sealed Transformer. No. H1218—List..... **\$6.00**



TUBE CHARGER —Rejuvenates All Tubes at Once Without Removing from Set

Tubes need periodic changing or monthly rejuvenating to keep at highest efficiency. With this compact outfit the set owner can recharge all tubes at once without removal from set. Works on all tubes. Easy to install and operate. Type 275 tube charger complete. **\$3.50**
No. H2116—List.....



Tube Chargers With Sockets—Type 180 tube charger is equipped with a socket and re-activates style 199 tubes. Instead of rejuvenating all the set tubes at once, it takes one tube at a time in its socket. Type 180 Rejuvenator complete. No. H2117—List..... **\$3.50**
Type 185—similar to type 180, but take 201 style tubes. Stock No. H2118—List..... **\$3.50**

TUBE TESTER

Tests tubes of 199 and 201-A types. Operates on 110 volt 60 cycle light current. Every set owner should have one. Tells instantly whether tubes are up to par. Many troubles of the receiving sets are caused by run down tubes. Every Radio Dealer should have a tester; test new tubes at time of sale and also give service testings for your customers. 195 Tube Tester complete. No. H2108—List..... **\$8.00**



TUBE REJUVENATOR

Brings back to active life tubes rendered inoperative by excessive filament voltage or constant use. Just as long as the filament is not burned out it makes them as good, if not better, than new. Easy to use. Works on 110-120 volts 60-cycle current. For all standard base 200, 201-A or 199 type tubes. Just 10 minutes required to bring tube to life. Type 175 Rejuvenator. No. H2105—List..... **\$7.50**



STAR TRANSFORMERS

These A. F. Transformers are the outstanding example of a high quality product, built of the highest grade materials and to the strictest specifications. Assembled in black enameled sheet steel cases. Laminated core so designed and assembled to insure even distribution through the entire circuit. Size 2 1/4" x 2 1/4" x 2 1/4" inches.

| Ratio | Useful Tone Frequency | No. | List Price |
|------------|-----------------------|-----------|------------|
| 1 1/2 to 1 | 50 to 10,000 | No. H1238 | \$2.75 |
| 3 to 1 | 50 to 10,000 | No. H1224 | 2.75 |
| 6 to 1 | 50 to 10,000 | No. H1225 | 3.00 |



THE INFRADYNE KIT WILL BE FOUND ON PAGE 90

ACME APPARATUS



B-4

B Eliminator Kits

These kits contain all the parts necessary to make a complete eliminator. The EK-1 will supply up to 180 volts for sets up to and including 12 tubes; the EK-3 for sets up to and including 6 tubes. EK-1 "B" Eliminator Kit with Raytheon tubes, complete. No. H2162—List...\$39.50 EK-3 "B" Eliminator Kit with Raytheon tube, complete. No. H1264—List...\$32.50 Operates from 110-volt—60-cycle current.

B ELIMINATOR PARTS

- B-2 Single Choke Coil, 50 M. A.—No. H1269—List..... \$5.00
- B-5 Double Choke Coil, 50 M. A.—No. H1381—List..... 9.00
- B-4 Trans. for Raytheon tube, 110 volts, 60 cycle, 60 M. A.—No. H1268—List..... 7.00
- F-1 Filter Unit, 1-12 tube sets—No. H1382—List..... 20.00
- F-3 Filter Unit, 1-6 tube sets—No. H1383—List..... 16.00
- A-4 Trans. for A supply unit, 110 volts, 60 cycle—No. H1384—List..... 16.00
- B-6 Trans. for Raytheon tubes, 110 volt, 60 cycle, 30 M. A.—No. H1385—List..... 6.00
- A-5 Choke Coil for A supply unit—No. H1386—List..... 16.00

AUDIO AMPLIFICATION PARTS

The universally known and used A-2 is unquestionably the most audio transformer for the money. The MA-2 was made in response to the demand for a transformer with high primary impedance and more amplification without distortion.

Without the impedance leak, this form of amplification does not give the quality because of rectification in the tubes. Acme has developed the Z-3 unit, which is specifically a single stage amplifier unit consisting of a coupling resistance and condenser with impedance leak. Binding posts are provided with the same marking as transformers. This unit can be used to great quality advantage by replacing one stage of audio transformer in a two-stage amplifier.



MA-2

- MA-2 A. F. Trans. 5-1 ratio—No. H1239—List.....\$6.00
- Z-2 A. F. Impedance, 200 henries—No. H1387—List..... 4.50
- Z-3 A. F. Resis.-Impedance Stage—No. H1388—List..... 5.00

A-2 A. F. TRANSFORMER

This universal transformer is for broadcasting and amateur use, and has long been accepted as standard by many manufacturers and set builders. It is of 4 to 1 ratio and correct impedance for the present tubes, of extremely low capacity with air gap in magnetic circuit to prevent distortion due to hysteresis and saturation. Mounted on aluminum die castings with elongated holes in the feet for fastening. No. H1240—List...\$3.00



R. F. TRANSFORMERS

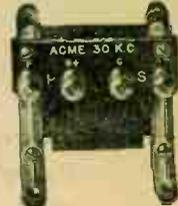
Made in four models, R-1, 2, 3 and 4. Generally regarded as the most efficient and leading transformers. Embedded in a moisture-proof, acid-free, non-conducting sealing compound, enclosed in an attractive Bakelite case with binding posts and terminal markings.



- R-1—No. H1241—List.....\$3.00
- R-2—No. H1242—List.....\$3.00
- R-3—No. H1243—List..... 3.00
- R-4—No. H1244—List..... 3.00

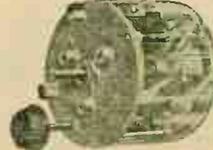
30-K. C. R. F. TRANSFORMER

As transformer and radio engineers and manufacturers, the Acme Apparatus Company has developed the 30 Kilocycle Amplifying Transformer to fill the demand for an efficient unit of this kind for those circuits using long wave radio frequency transformers. This transformer has an equal range over from 25 to 35 kilocycles and may be used in cascade for several stages. No. H1245—List.....\$3.00

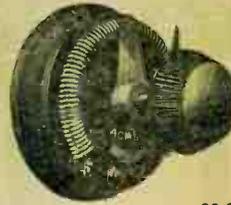


VARIABLE AIR CONDENSER

.0005 Capacity. Unusually low loss. Adjustable steel brass cone bearings. Brass silver plated plates. Dust proof covering. Coiled connection between shaft and heads, allowing lubrication of bearings.



Counterweight which balances rotary plates. Noiseless friction Vernier control, seven to one ratio. No. H347—List....\$5.50



POT RHEOSTATS

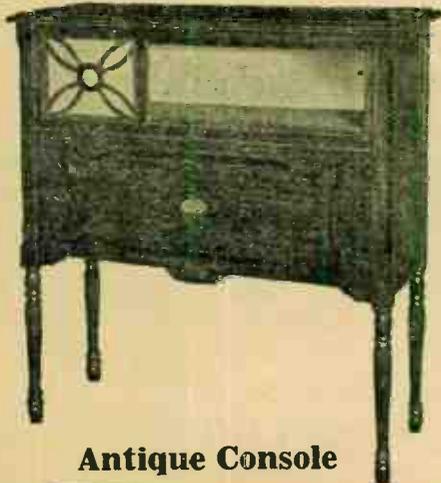
Used in many of the best distance getting and quality producing radio sets in operation. 6-ohm Rheo.—300-ohm Pot.—No. H1389—List.....\$3.00 6-ohm Rheo.—2,000-ohm Rheo.—No. H1390—List..... 3.00

AMERICAN CABINETS

ANTIQUE CONSOLE

An excellent console cabinet of attractive design. Antique walnut, lacquer finish. Will accommodate any 7-inch panel from 18 to 24 inches long, size must be specified. A wood tone chamber of fine tonal qualities ready for unit is behind the grill at the left of the set. Size 38½ inches long, 14½ inches wide and 36 inches high. No. H2385—List.....\$29.75

Without tone chamber and grill will accommodate panels up to 32 inches long. \$27.50 H2386—List ...



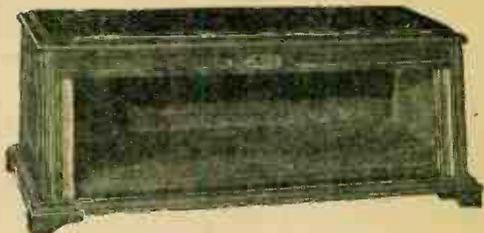
Antique Console

CABINETS

De Luxe Model Genuine Solid Walnut

Both straight and slanting front. Has ¼-inch groove on all four sides to receive panel. 26-inch model inside dimensions—25¼x8¼x11¼ inches wide. 34-inch model 33¼x8¼x11¼ inches wide.

| Panel | Bat. Space at Each End | 26-Inch Model | 34-Inch Model | List |
|-----------|------------------------|----------------|---------------|---------|
| 18 inches | 4 inches | Straight Front | No. H2391 | \$15.00 |
| 21 inches | 2½ inches | Slanting Front | No. H2392 | 15.00 |
| 24 inches | none | | No. H2393 | 15.00 |
| 26 inches | none | | No. H2394 | 15.00 |
| 24 inches | 5 inches | | No. H2395 | 18.50 |
| 26 inches | 4 inches | | No. H2396 | 18.50 |
| 28 inches | 3 inches | | No. H2397 | 18.50 |
| 30 inches | 2 inches | | No. H2398 | 18.50 |



SLOPING FRONT CABINETS

Made of southern willow. Hand rubbed to a beautifully grained American walnut finish. The latest thing in style and design. Extra heavy rugged construction. A remarkably fine cabinet at a low price. Four sides grooved for panel to fit.

- 18x7x11. No. H3715—List.....\$ 6.50
- 21x7x11. No. H3716—List..... 7.00
- 24x7x11. No. H3717—List..... 8.00
- 26x7x11. No. H3718—List..... 9.00
- 30x7x11. No. H3719—List.....10.00



Battery Table

This practical and attractive battery table is made of quartered hard wood. It has the style and appearance of good furniture, and is priced very low. Note these features: Plenty of knee space, ample room for all batteries and charger, right height, drawer for logs, accessories or tools, two-toned mahogany or walnut lacquer finish. Top 37 inches long, 16½ inches wide. No. H2399—List.....\$25.00

AMERICAN CABINETS
A COMPLETE STOCK OF AMERICAN CABINETS ARE ALWAYS IN STOCK

THORDARSON
ELECTRIC MFG. CO.

TRANSFORMERS

Autoformer All-Frequency Impedance

The Autoformer is an all frequency amplifier. It is not a transformer. Autoformer amplification is an adaptation of capacities, impedances and resistances—a special Thordarson development.

The Thordarson Autoformer amplifies, with even magnitude, all notes within range of the human ear. Thus, with the Autoformer, the deepest notes of the grand organ receive the same attention as the high C of the soprano.

Superior to all other forms of audio frequency amplification.
Catalog R 190. No. H1274 **\$5.00**
—List.....



Amplifying Transformer R-200

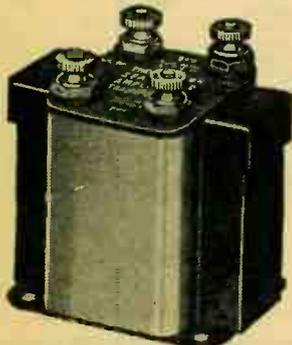
The R200 Amplifying Transformer, a Thordarson development, represents the last word in transformer design. The over-sized core and the high inductance primary combine to make the smooth, distortionless amplification curve above.

The finest audio transformer designed for the musical epicure, this transformer records with unusual fidelity even the slightest shading of tone, volume, timbre and range. Brings out every instrument with its true characteristics.

Has wide range of amplification, giving good reproduction of notes from well into the bass up past the upper limits of audible frequency. R-200—H1267—**\$8.00**
List



Super-Amplifying Transformers



The Transformers listed and shown below were built to fulfill the demands made by builder and manufacturer for individual stage radio types for the reproduction of voice and music in the highest degree of perfection.

6 to 1 Ratio—Recommended for one-stage amplification where maximum power from a single tube is desired. H1282—List

3½ to 1 Ratio—Recommended for the average two-stage amplifier under normal conditions. H1281—List

2 to 1 Ratio—For all three stage amplifiers and for two-stage amplifiers in connection with sets having a large detector output, such as tuned radio frequency and reflex circuits. H1280—List

Sub-panel types with leads coming out the base can be supplied at above prices. Unless specified regular mounting styles will be furnished.

B-Eliminator Transformer

Raytheon Type

Converts the house lighting current into proper voltage values for B supply for radio sets. Designed for use with Raytheon tube eliminators. Will deliver up to 140 volts at 40 milliamperes drain. Conservatively rated. Will not heat up in continuous service. Used by leading set manufacturers. Core clamped and sealed. Silent in operation. Dimensions 4¼ inches by 3½ inches by 3¼ inches high. No. H1348—List..... **\$7.00**



B-Eliminator Transformer

This transformer supplies necessary voltages for operating B-eliminators employing the UX213 or CX313 full wave rectifying tube. Eliminators built with this transformer will satisfactorily furnish B voltage up to 180 volts with sufficient capacity to operate any receiver. Dimensions 4½ inches and 3½ inches by 3¼ inches high. No. H1349—List..... **\$7.00**

Sub-Panel Mounting Type

AMPLIFYING TRANSFORMERS

The super amplifying transformer is also furnished with leads coming out of the base for use in sets mounted on sub panel. Provides neater assembly, shorter leads and makes a set look like a factory-made set.

Same characteristics as transformers listed above.

R181—6-1 Ratio. H1278—**\$4.50**
List

R180—3½-1 Ratio. H1283—**\$4.00**
List

R182—2-1 Ratio. H1284—**\$5.00**
List



R-196-30 Henry Choke Coil

For use wherever a good, heavy duty choke is required. This Thordarson choke is designed for use in filter circuits in converting A. C. into smooth D. C. for radio use. Especially adaptable for use with B-eliminators and power amplifiers. Mounted in attractive steel case. Completely shielded and mounted in a steel case measuring 3x3½x3 inches high. Binding posts at base of choke to provide neat assembly. Inductance valued at 30 henries. Current carrying capacity, 60 milliamperes. D. C. resistance, 280 ohms. No. H1347—List..... **\$5.00**



Transformers

POWER AMPLIFYING TRANSFORMERS

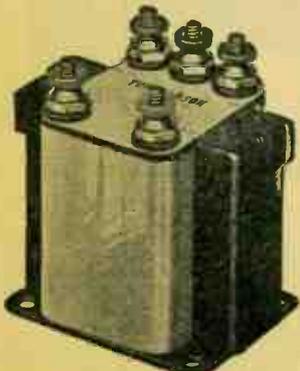
For use in third stage of amplification in cases where power desired would normally overload the third stage vacuum tube if straight audio frequency amplification were used. Can be used as a standard amplifying transformer and as a coupling transformer for loud speakers.

Input—Catalog R155.
Output—Catalog R156.
H1276—List, per pair.....\$13.00

INTERSTAGE POWER AMPLIFYING TRANSFORMERS

Designed to couple input and output transformers of standard power amplifier circuit. This transformer, together with R155 and R156, provides two stages of power amplification.

Catalog R157. Stock No. 1279—List \$8.00



Power Amplifier Supply Transformer

Furnishes power for both plate and filament of power tubes U. X. 210 or C. X. 310. Supplying 7½ volts for the filament and 400 volts for the plate. In addition the amplifier supplies B. voltages for the complete receiver. Core clamped and sealed to prevent hum.

Dimensions 4 inches by 5 inches by 3¼ inches high.

No. H1344—**\$12.00**
List



“THORDARSON TRANSFORMERS ARE THE BEST”

New Silver-Marshall "B" Plug-In

USES CUNNINGHAM OR RECTRON TUBE

The new S-M 650C Plug-In B Power Supply introduces a new era in plug-in power supplies designed to operate radio receivers from home lighting circuits.

This type Plug-In B is wired for operation with Rectron UX-213 or Cunningham CX-313 full wave rectifier tubes. With these tubes, the power output will be 280 volts, no load, falling to 180 volts at 50 milliamperes. This power is ample to operate an ordinary receiver with a UX-171 output tube. In most cases the output will be sufficient to supply the 40 volt C bias as required by the UX-171 tube, as well as ample B voltage.

This unit will give dependable power at all times. A steady, even flow of current is necessary for good reception. It has the additional advantage of always giving the same amount of power without fluctuation. It is practically trouble-proof and will give years of service. The cost of operation is so small as to be hardly computable. The unit will save many times its cost in eliminating the continual purchasing of B batteries.

Type 650C Plug-In B Power Unit.
No. H2225—List \$33.50
Cunningham or Rectron tube, CX-313 or UX-213—List \$6.00

B Plug-in Kit—650-D

This is a complete kit, already assembled, but not wired. The same parts are used in it as in type 650-C. The 650-D kit may be used with Raytheon type B or BH tubes, but it must be borne in mind that the manufacturers maximum rating for these tubes is below that of the 650-C set. For this reason the use of Rectron or Cunningham tubes are recommended.

650-D B Plug-in kit (assembled, not wired). No H2226—List \$29.00
Without Tube.

New Power Transformer Used in B Plug-ins

This new power transformer is similar in all respects to the regular Silver-Marshall No. 330, listed on another page. It is provided with a 110-volt primary with cord and plug, two 220-volt secondaries and a 5-volt filament winding with neutral tap.

No. 329 Transformer. No. H2227—List \$6.00



Anyone Can Build a Reliable B BATTERY ELIMINATOR

Using Dongan

Transformers and Chokes

Dongan transformers and chokes are designed for half wave and full wave rectification for both filament and non-filament types of tubes. Both transformers and chokes are shielded by metal cases filled with high-grade transformer compound. With the perfection of the new filament and non-filament tubes for "B" eliminators, used with these transformers and chokes, any set owner can enjoy a source of "B" power that is constant and can be relied upon.



TRANSFORMERS

No. 509—Full wave for Raytheon Tubes. H581—List . \$7.00

No. 537—Full wave for R. C. A. UX 213 Tubes. H582—List \$7.00

No. 537—Full wave for Cunningham CX 313 Tubes. H583—List \$7.00

No. 538—Half wave for R. C. A. UX 216-B Tubes. H584—List \$7.00

No. 538—Half wave for Cunningham CX 316-B Tubes. H585—List \$7.00

CHOKES

No. 514—20 henry. H586—List \$5.00

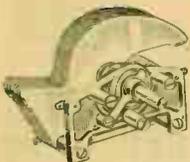
No. 506—30 henry. H587—List \$5.00

No. 539—50 henry. H588—List \$5.00

Indorsed by leading radio engineers and well known radio editors. Diagrams and instructions for building these B Eliminators have appeared in many magazines and are furnished with the tubes, transformers and chokes.

BENJAMIN CONDENSERS TRANSFORMERS—SOCKETS

S. L. F. LOW LOSS CONDENSER



Eliminates bunching of stations by the special design of rotor plates. Spreads the log evenly over the dials and makes tuning easy. Adjustable turning tension. Perfect alignment and rigidity of plates. Cone bearings keep rotor plates in alignment. Absorption losses eliminated. Attractively finished in unpolished silver plate.

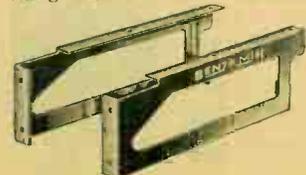
No. 9060 capacity .00025 Mfd. H403—List \$5.00
No. 9061 capacity .00035 Mfd. H404—List 5.25
No. 9062 capacity .0005 Mfd. H405—List 5.50



GANG SOCKETS

Gang sockets suitable for standard and 199 tubes.

Gang with 3 sockets No. H20—List \$4.25
Gang with 5 sockets No. H21—List 3.00
Gang with 6 sockets No. H22—List 3.75
Gang with 7 sockets No. H23—List 9.50
Gang with 8 sockets No. H23A—List 11.00



BRACKETS

An aid to simplification in set construction. Supports the sub-panel, with room underneath for accessories and wiring. No. H407—List \$0.70 per pair.

CLE-RA-TONE "PUSH" SOCKET

Spring supported which absorbs all shocks, stopping tube noises. The greatest aid to non-noisy operation. Contacts always clean. To be used with new UX type tubes. Furnished with and without lower mounting base and with drilling template with 4 screws and nuts.

No. 9040 with base H764—List \$.75
No. 9044 without base H765—List \$.50
(For direct mounting on 1/8" or 1/4" panel.)



SPRING SUPPORTED
SHOCK ABSORBING

CLE-RA-TONE SOCKET

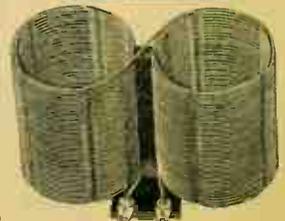
Stops tube noises by counteracting the mechanical shocks which are ordinarily transmitted to the filament and set in motion. Cle-ra-tone socket for standard base and 199 tubes. No. H809—List \$1.00



SPRING SUSPENDED
SHOCK ABSORBING

LEKELESS TRANSFORMER

Can be used with any type of tuned radio frequency circuit or with more than two steps of radio frequency. Especially good for single control. Can be mounted in any position. Uniform high inductance low distributed capacity and low resistance. No. 9097. Transformer H1298—List \$2.50



BENJAMIN SHORT WAVE KITS WILL BE IN STOCK AFTER SEPTEMBER 20



RADIO PARTS

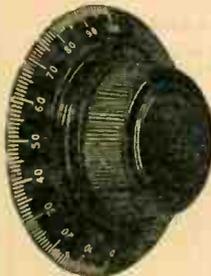
DE LUXE DIALS



A big massive five inch dial. The superior hand grip it affords plus the 200 division dial, making it possible to swing from station to station surely, quickly and accurately. Anti-clockwise. 5-inch dials. Black. **\$1.50**
No. H807—List.
Brilliant Tortoise. **3.00**
No. H807A—List.
Malachite Green. **2.50**
No. H807B—List.
Garnet. H807C—**2.50**
List

VERNIER DIAL

A new Vernier Dial smooth and positive in operation. No gears, nothing to get out of order. Fits all condenser construction, including condensers with one-hole mounting. 4-inch. Anti-clockwise. Black. No. H1765—List. **\$1.50**
Brilliant Tortoise. No. H1765A. List **\$3.00**
Malachite Green. No. H1765B. List **\$2.50**
Garnet. No. H1765C—List **\$2.50**



Super De Luxe Dial to match the Vernier dial 4-inch size. No. H1779—List **\$0.75**
In colors—List **1.50**
A distinctive dial of smaller size, proportioned like the popular Super De Luxe Dial. (Reads one way.) 3-inch Dial. Black. No. H1780—List **\$0.50**
In colors—List **1.00**

ADAPTER

Use with Radiola III and IIIA sets with the new UX199 and UX120 tubes, or other similar tubes. The change is simply and easily made. No change in sets or wiring is necessary. Adapts for all new UX type tubes. 421X adapter **75c**
No. H1868—List



No. 420 and 920 Connectoralds For UX 120 Tube in UV 199 Socket

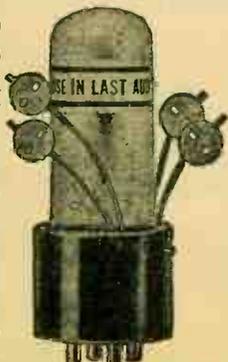


These Connectoralds fit the new tubes to UV199 sockets, and provide cables for attaching the necessary 22½ volts "C" battery and extra 45 volts "B" battery required for this tube. The No. 420 Connectorald is for Radiola Super-heterodyne and Super VIII sets, and holds the tube on an angle. The No. 920 Connectorald, for other sets with UV199 sockets, holds the tube upright.

Na-Ald No. 420 Connectorald. H1864—List **\$1.25**
Na-Ald No. 920 Connectorald. H1865—List **1.25**

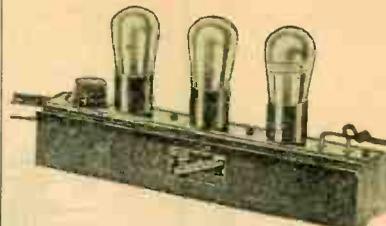
Connectorald for UX 120 Tubes in UV201A Sockets

A UX120 tube in the last stage of audio frequency amplification, with the Na-Ald No. 120 Connectorald, and UX199 tubes with No. 419X adapters or UV199 tubes with 429 adapters in other sockets, will provide ample power for full volume loud speaker operation, from dry cells. 120 Connectorald. H1866—List **\$1.25**



A New Standard of Reproduction by a Revolutionary Method of Amplification.

The Na-Ald Truphonic Amplifier



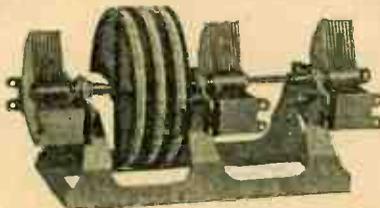
This is the ideal audio amplifier. It reproduces the bass with its original volume and resonance, delicate over tones clear and distinct, separates the F's and V's and makes applause the actual clapping of hands and not just a roar. Reproduces with fidelity to the original, from the faint high notes of a distant singer to the roundness of crescendo of a nearby symphony orchestra. The proper amount of volume so that you do not have to hold your ear to the speaker, but can sit back and feel the original actually at hand.

Engineers have long believed such amplification possible. Many experiments and combinations have been tried and used, some a little better than previous attempts. But now a real stride, a truly great accomplishment has been made—The Na-Ald Truphonic Amplifier with its undistorted amplification.

Use this amplifier on an old set, or a new one, with a speaker that you've condemned as impossible. Tune in a station you've ruled as poor. The results of this revolutionary Truphonic amplifier will be more than startling. A Test under such unfavorable conditions will bring a realization that for the first time, you can invert in a new radio or modernize your old one, with years to pass before it can be improved on.

This amplifier is small and compact and can be easily attached to any set. Na-Ald Truphonic Amplifier, complete less tubes. No. H1788—List **\$20.00**

Localized Control Unit



By bringing the tuning controls together beneath the fingertips of one hand, all the advantages of single control are attained with none of the limitations which single control imposes.

All three condensers can be moved at once, when shifting from one station to the next, with all the ease of single control. Without even shifting the fingers, each condenser is brought to the point of maximum volume. .00035 capacity.

No. 2172—Double condenser. **\$ 8.00**
No. H1375—List.
No. 2173—Triple condenser. **10.00**
No. H1376—List.
No. 2174—Quadruple condenser. No. H1377—List. **15.00**
No. 2170—Double condenser, tickler control. H1378—List. **10.00**

KNOBS



K3044 and K3674 are 2½ inches and 2¾ inches in diameter. K3844 is 1¾ inches in diameter and has an indicator for use on rheostat or similar service. Standard knobs are for ¼-inch shaft.
K3044—Stock No. H1676—List **\$0.35**
K3674—Stock No. H1677—List **.30**
K3844—Stock No. H1678—List **.20**

UNIVERSAL SOCKET

The Na-Ald 481X stands unique as really universal. UV201A tube prongs, no matter how short, are gripped firmly close to the tube base. All types of UX and similar tubes are securely held in place, with sure, quiet connections. An actual comparison will show more clearly than description.



Na-Ald 481X Universal Socket (Patented) **35c**
H1843—List
Na-Ald 481XS Cushion Socket. H1844—List **50c**

DE LUXE SOCKET

Dry battery sets use 120 tubes with Na-Ald CONNECTORALD

The patented side scraping clip cleans corrosion from the tube terminal, and comes to rest on the clean surface. To clear reception simply rotate the tube three or four times. Na-Ald 400 De Luxe Socket (Patented). H1827—List **75c**



Other Na-Ald Sockets

No. 401—Small Space. H1831—List **\$0.35**
No. 401S—Spring Cushion. H1831S—List **.50**
No. 411—For WD11 Tubes. H1830—List **.75**
No. 499—For UV199 Tubes. H1828—List **.50**
No. 499S—Spring Cushion for UV199 Tubes. H1828S—List **.50**

ADAPTER 999

Make Dry Cell (UV199) Sockets Universal

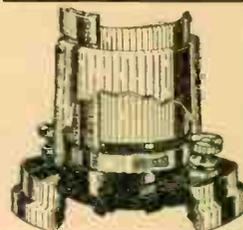
Make dry cell sockets (UV199, C299 or equivalent) universal to accept any of the tubes with the new style base, and also any of the storage battery tubes, with either old or new style base. The UX199 or equivalent tube may be used in all dry cell sets with this adapter. 999 Adapter. No. H1870—List **\$1.00**



CONNECTORALD FOR UX112 TUBES

For the owner of a storage battery set who wishes to get the maximum of power, the UX112 tube with the Na-Ald 112 Connectorald is recommended.

112 Connectorald. **\$1.25**
No. H1867—List



ADAPTERS

For 199 Tubes in Standard Sockets Use Na-Ald 419X Adapter for UX199, CX299 and similar tubes of other makes with the new small base, and Na-Ald 429 Adapter for UV199, C299 and similar tubes with old style small base.



Type 429

429—Adapter. No. H1869—List **75c**
419X—Adapter. No. H1829—List **35c**



Type 419X

CARTER STANDARD RADIO PRODUCTS

Nationally Advertised - Built to a Standard - Not down to a Price

"Imp" Rheostats and Potentiometers

The Carter "Imp" is the smallest rheostat made. Construction insures reliable operation at all times. Contact arm keeps constant pressure on more than one wire. Uniformly smooth flow of current. Projects back of panel less than 3/8-inch, 1 1/2 inches diameter. One hole mounting. Exposed parts. Nickel plated.

- IR-3 3 ohm. H666 —List ..\$1.00
 - IR-5 6 ohm. H666A—List .. 1.00
 - IR-10 10 ohm. H666B—List .. 1.00
 - IR-15 15 ohm. H666C—List .. 1.00
 - IR-20 20 ohm. H666D—List .. 1.00
 - IR-25 25 ohm. H666E—List .. 1.00
 - IR-30 30 ohm. H666F—List .. 1.00
 - IR-40 40 ohm. H666G—List .. 1.00
 - IR-50 50 ohm. H666H—List .. 1.00
- No. IR-200—200 ohm. H657—Each .. **\$1.25**
- No. IR-400—400 ohm. H668—Each .. **1.25**
- Prices complete with arrow pointer black knob.

Carter "Hi-POT" Volume Control

Corresponds to Carter HI-OHM, except for third terminal. Used modulator, volume control, etc. Connect terminal No. 1 to ground or filament in order to take advantage of "curved line" feature.

- No. 55 500,000 ohm—H681.
- No. 33 300,000 ohm—H682.
- No. 22 200,000 ohm—H683.
- No. 11 100,000 ohm—H684.
- No. LL 50,000 ohm—H696.
- No. XX 10,000 ohm—H697.

Complete with black arrow pointer knob—List ..\$2.25

Carter Hi-OHM Volume Control

A non-inductive variable wire wound resistance, 1 1/2 in. dia. Projects 3/8 in. back of panel. Produces a uniform change in resistance. Contact arm slides on projecting wires. Special moist-proof resistance, assuring long life and unvarying electrical characteristics.

- No. 5. 500,000 ohm—H680.
- No. 3. 300,000 ohm—H680A.
- No. 2. 200,000 ohm—H680B.
- No. 1. 100,000 ohm—H680C.
- No. L. 50,000 ohm—H680D.
- No. X. 10,000 ohm—H680E.

Complete with black arrow pointer knob—List ..\$2.00

New "Hi-OHM Volume Control and Filament Switch

As soon as the knob is turned from "OFF" position, the Filament Switch is closed and remains closed until the "HI-OHM" is turned off. Mounts in 3/8-inch hole on panels 1/2-inch to 3/4-inch.

By combining the Volume Control with the Filament Switch, the operation of the set is greatly simplified and separate Filament Switch is eliminated—thus removing one more knob or switch button from radio set.

- No. 5-S 500,000-ohm H678
- No. 3-S 300,000-ohm H678A
- No. 2-S 200,000-ohm H678B
- No. 1-S 100,000-ohm H678C
- No. L-S 50,000-ohm H678D
- No. X-S 10,000-ohm H678E

Complete with black arrow-pointed knob, List \$2.50

Carter Midget Rheostat

Non-magnetic all-metal frame. Only 1 1/2 in. dia. Projects 1/4 in. back of panel. Mounts in 3/8 in. hole. Smooth operation.

- No. M-2 2 ohm—H945.
- No. M-3 3 ohm—H946.
- No. M-6 6 ohm—H947.
- No. M-10 10 ohm—H948.
- No. M-15 15 ohm—H949.
- No. M-20 20 ohm—H979.
- No. M-25 25 ohm—H980.
- No. M-30 30 ohm—H981.
- No. M-40 40 ohm—H982.
- No. M-50 50 ohm—H983.

Complete with black arrow pointer knob—List ..\$0.50

"SHORT" JACKS

Smallest on market. For use where jack space is limited. Makes good contact with any make of plug.

Solder lugs are widely spaced to facilitate soldering. Heavy bakelite insulators eliminate possibility of short circuit and leakage. Sleeve terminal marked "+"; mounts in 3/8-inch hole on panels 1/8-inch to 1/4-inch; on 1/4-inch panels by counterboring 1/8-inch.

- No. 1—"Short" Jack, open circuit. H901—List .. **25c**
- No. 2A—"Short" Jack, closed circuit. H902—List .. **30c**
- Insulation for mounting on metal panels; extra, Per jack .. **10c**

DIAL LIGHT

Illuminates dials and front of panel. A quarter turn of the hood reflector switches the light on or off. Provided with extra terminal so that Dial Light can be used as filament switch in addition to lighting the dials. Complete with buffed nickel hood reflector and lamp operating on 6 volts. No. DS-6. H913—List—Each .. **\$1.75**

RESISTANCE UNITS

For many uses—for instance, to convert the R. C. A. No. 3-A sets to new tubes, a 3-ohm unit is needed.

- No. RU-1—1 ohm No. H907 \$0.15
- No. RU-3—3 ohm No. H907A .15
- No. RU-4—4 ohm No. H907B .15
- No. RU-6—6 ohm No. H907C .15
- No. RU-10—10 ohm No. H907D .15
- No. RU-15—15 ohm No. H907E .15
- No. RU-20—20 ohm No. H907F .15
- No. RU-25—25 ohm No. H907G .15

"IMP" LOOP

Compound progressive winding makes this Loop powerful and selective. It is light (weighs 1 lb.); it is small (16-in. dia.); it is efficient. Provided with center and quarter taps. Code No. IL-100. \$7.50

Stock No. H908—List .. **\$7.50**

JACK SWITCHES

Two springs; closes one contact; used to close the A battery circuit. Type 2 Jack Switch. H1672—List ..\$1.00 ea.

Three springs; opens one and closes one contact for switching from long to short wave and from one dry A battery to another. Type 3 Jack Switch. H1673—Price ..\$1.15 ea.

Four springs; closes two contacts; used for cutting in second head set, also for adding a second cell in parallel. Type 4 Jack Switch. H1674—Price ..\$1.30 ea.

Six springs; opens two and closes two contacts; can be used to switch battery charger and loud speaker on and off, etc. Type 6 Jack Switch. H1675—Price.....\$1.60 ea.

Mahogany knob, 5c extra.

"HOLD-TITE" JACKS

(PAT. 1-30-22) Type 101—1 spring, open circuit. H933. List ..\$0.70

Type 102A—2 springs, one break contact, insulated frame, closed circuit. H837. List ..\$0.80

Type 103—3 springs, one local made contact, single filament contact. H835. List ..\$0.90

Type 104—4 springs, breaks two contacts, double circuit. H832—List ..\$1.00

Type 105—5 springs, opens two and closes one contact. Double filament control. H837—List ..\$1.10

Type 107—7 springs, opens three and closes one contact. Double circuit, double automatic filament control. H838—List.....\$1.30

Type 100—6 springs, breaks three contacts. Used in Freed-Eisemann type of circuit. H831—List ..\$1.20

Type 104A—4 springs, makes one and breaks one contact. Used in first stage audio Freed-Eisemann type circuit. H830—List.....\$1.00

Type 103A—3 springs, makes one and breaks one contact. H850—List ..\$0.90

Type 102—2 springs, one break contact, closed circuit. H834—List ..\$0.80

FLAT PLUG

A new, original, and efficient plug. Provides quick and positive means for inserting and removing cord tips without use of triggers, push buttons, and other devices now used in so-called automatic plugs. Cord tips completely concealed. Shape of handle conforms with that of knobs and dials. Cords hang from the bottom of handle instead of projecting, as on all other plugs. Adds distinct refinement and finish to any set. H147—List—Each .. **75c**

"IMP" BATTERY SWITCH

Quarter Turn Snap Switch makes positive contact. "On and Off" name plate and pointer indicate position of switch. Compact and quiet in operation. One hole mounting. Complete. H1800—List .. **65c**

"IMP" PILOT SWITCH

A Quarter Turn Battery Switch, automatically indicating by red pilot light when set is in use. When filament circuit is switched off, pilot light is extinguished. Self contained. Positive in operation. Single hole mounting. Exposed parts buffed nickel. Price complete .. **\$1.50**

No. H904—Each .. **\$1.50**

LOCK SWITCH

Quarter Turn Snap Switch makes positive contact. "Off and On" name plate and key handle indicate position of switch. One hole mounting. Compact. Sturdy. 3 Keys furnished. S-2. Exposed metal parts gold plated, 15c extra.

H914—List .. **75c**

PORTABLE JACK

For use with extension cord to a head-set or loud speaker at distant point. Provided with terminals to take either telephone cord tips or wire. No. 12—Without cord. H905—List .. **75c**

"IMP" CORD TIP JACK

replaces binding post for phone cord; provides easy method of connecting any circuit using standard phone cord-tips or "IMP" plugs. Nickel plated. Phosphor-bronze spring. Mounts in 3/8 in. hole. No. H910—List.... **30c**

"IMP" PLUG

Can be attached to tinsel cord or wire without soldering. H142—List .. **15c**

"IMP" Inductance Switches

Contacts securely held in place by Nickel-plated clamping rings; wiper contact arm always makes firm contact.

One Hole mounting. Same general construction, size and appearance as "Imp" Rheostat. Furnished complete with arrow pointer black knob.

- No. 404—4 Point. **\$1.00**
- H674—List ..
- No. 405—5 Point. **1.05**
- H675—List ..
- No. 407—7 Point. **1.15**
- H676—List ..
- No. 409—9 Point. **1.25**
- H677—List ..

BREMER-TULLY LINE OF RADIO PARTS



"B" Eliminator—Supplies current from light socket

This B-Power unit delivers the exact voltage required at all times, which makes much better reception possible. It is easy to install. This power unit will last a life-time. Pays for itself many times by saving the cost of "B" batteries. Delivers 135 volts at

50 milliamperes. Requires no adjustments after installation. Size 4x7x10 inch, weighs 15 lbs. Operates on 60 cycle 110-120 volts A. C. "B" power unit with Raytheon tube, complete. **\$49.50**
No. H2177—List



UL UNIVERSAL SOCKET

Takes the navy type tubes, also the large or small tubes with the new UX base. No adapter necessary. Spring contacts make a gripping side hold and connect directly to wiring. This entirely eliminates the constantly recurring trouble caused by poor connections. Always a big seller for dealers. UL Universal socket.

No. H1850—New Reduced Price. **50c**
List

NEW EUPHONIC TRANSFORMER



This new Euphonic Transformer has many advantages not found in ordinary transformers and will give unusual results. It is so designed as to permit mounting either side up. All crossed wires have been eliminated which helps greatly to prevent howling and squealing. It is of low ratio and makes an ideal unit in a three-stage audio amplifier.

Type 210. Ratio 2.2 to 1. No. H1293—List **\$5.00**
Type 410. Ratio 4.7 to 1. No. H1294—List **5.75**

NEW UX ABSORBER SOCKET

Absorbs all shocks and jars that damage the delicate tube elements. Stops outside mechanical vibrations, thereby increasing the quality of reception. Takes UX tubes only. Positive contacts, but tube is easily inserted or removed without sudden and unexpected release. UX absorber socket.

No. H1872—List **75c**
New UX detector socket, same as absorber socket, but has long side mufflers extending nearly to top of tube. Positively prevents any vibration from even starting. UX detector socket. No. H1871—List **\$1.00**



NEW TUNING CONTROL

This new tuning control of unique design is unusually attractive. It gives highest efficiency and absolute control because of a 12 to 1 ratio. Makes tuning easier. Improves reception and makes possible the bringing in of more stations. Besides giving greater selectivity, it greatly improves the appearance of any set. Tuning control.

No. H1795—List **\$2.50**



LIFE TIME CONDENSER



This is one of the most popular condensers on the market, due to its construction and low loss characteristics. No crowding on short wave lengths. Plates made of pure aluminum. Mounts on panel or base. Guaranteed for a life time.

| | | | |
|------------------|----------|---------------------|--------|
| 7 plate .00015. | 150 MMF. | No. H4349—List..... | \$4.25 |
| 13 plate .00025. | 250 MMF. | No. H4350—List..... | 4.50 |
| 17 plate .00035. | 350 MMF. | No. H4351—List..... | 4.75 |
| 25 plate .0005. | 500 MMF. | No. H4352—List..... | 5.00 |
| 35 plate .0008. | 800 MMF. | No. H4353—List..... | 6.00 |

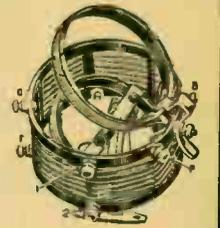
MIKRO MIKE CONDENSER

This precision balancing or neutralizing condenser is indispensable wherever a highly accurate capacity capable of micrometer adjustment is needed. The glass dielectric is not affected by moisture nor can the condenser be short circuited. Capacity 1 1/2 to 25 m.m.f.

No. H519—List Price \$1.00

LOW LOSS TUNER

A new low loss tuner for vari-ous circuits. It gives greater selectivity and signal strength. Like all other B-T parts it is of first-class material and workmanship and will be found to give better than ordinary results. Type B—200 to 565 meters. No. H500—List **\$5.00**
Type SW—55 to 150 meters. **4.00**
No. H501—List



STRAIGHT LINE FREQUENCY CONDENSER



The complete elimination of crowding of stations regardless of their wave length is easily accomplished with this new condenser. It spaces stations uniformly over the dials, when used with B-T coils, and possesses all the superior qualities of the original B-T low loss condenser.

SLF Condenser, 13 plates, .00025. **\$5.50**
No. H1898—List
SLF Condenser, 17 plates, .00035. **5.75**
No. H1899—List

Radio Frequency Choke

This R. F. Choke has been found advantageous for use between "B" batteries and plates of R. F. tubes. It balances and controls "B" input, aids in control of regeneration, and often eliminates howls otherwise impossible to avoid. No. H3270— **90c**
List



MULTIPLE CONDENSER

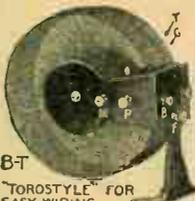
This is a necessity in circuits designed for simultaneous tuning. Plates shaped similar to the single condenser assures best possible tuning. Compensating "trimmer" is an exclusive feature and of highest merit. Secondary "trimmer" is adjusted but once, then a slight movement of the small knob compensates for any possible variations. This feature is a necessity in practically every circuit employing multiple control.



LD 13 plate .00025. 250 MMF. **\$9.00**
No. H4354—List
LD 17 plate .00035. 350 MMF. **9.50**
No. H4355—List

TOROSTYLE TRANSFORMER

Gives Results Never Before Obtainable



B-T "TOROSTYLE" FOR EASY WIRING

This is the latest form of R. F. transformers. Produced after 3 years of laboratory experimental and research work. Gives far better results than any other transformer ever designed. Critical angles are eliminated and it lessens inter-stage coupling and signal "pick-up." Bremer-Tully regard this product as their crowning achievement, yet its price is no more than for ordinary transformers.
Type TA—for antenna coupler No. H3229—List **\$4.00**
Type TC—for intermediate R-F stages. No. H3230—List **4.00**
Type T4—for 4-tube sets. No. H3233—List..... **4.00**

SHORT WAVE OUTFIT



Consists of a variable rotor mounted on a Bakelite base and a set of four interchangeable coils covering the following ranges: 12 to 25 meters, 25 to 50 meters, 50 to 100 meters and 100 to 200 meters, when tuned with the B-T No. H7 .00015 condenser. Short wave outfit, with 4 interchangeable coils complete. No. H3227—List..... **\$8.00**

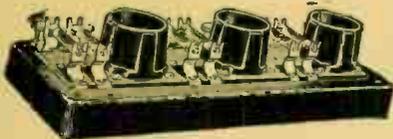
COUNTERPHASE KITS

All the efficiency of the famous B-T "Nameless" circuit with many added advantages. Has greater selectivity, volume, distance and simpler control by use of B-T dual resistance and double condensers. This new 6-tube circuit employs 3 stages of radio frequency with only two tuning dials. Kit includes one TA and 3 TC Toro-style Transformers, 2LD-17 and 3 Micro-Mike Condensers, 1 Dual Resistance, complete wiring diagram, blue prints and instructions. **\$38.00**
H2681—List



DAVEN Resistance Coupled Amplification— The Way to Clearer Radio Reception

THE DAVEN SUPER AMPLIFIER



This Super Amplifier insures the finest tone quality obtainable. The most completely developed resistance coupled amplifier on the market. The most compact amplification unit, taking only a space 4x10 inches.

Complete unit, including sockets. One piece of moulded bakelite. Sockets fit all standard tubes. All Daven condensers and resistors, which give 50% more volume, are included.

The Daven tubes are especially suitable for this amplifier. Packed in carton with complete instructions. Priced without tubes. H4000—List... **\$15.00**

THE DAVEN AMPLIFIER KIT



Designed for those who prefer self-assembly. When properly assembled will give the same high quality as the super amplifier. Contains 3 No. 42 couplers (with special Type "A" condensers moulded in base), and six resistors of the proper value for Daven Amplification. Sockets and bus wire not included. Packed in carton with instructions.

The experimenter who delights in building his own set will find these sets exceedingly satisfactory.

Three-stage amplifier kit without sockets.

H4001—List **\$8.00**

Four-stage amplifier kit without sockets. H4002—List **\$10.50**

Standard Mountings



No. 50 Standard Resistor Mounting for the superior Daven resistors, Grid Leaks, Leakandensers, Fixed Detectors, or similar devices. Without resistor. H4056—List **35c**

Combination resistor and condenser mounting. H4005—List **40c**

Fixed Condenser Mounting. H4006—List **30c**

Daven Glastor and Hi-Duty Glastor



The new Daven Glastor entirely eliminates the use of impregnated paper or fibre. The Daven engineers have succeeded in improving even their excellent former type of resistor. Glastor will carry a much higher current than any other resistor known in the radio industry. It is absolutely noiseless and will not vary from the rated value, no matter how it is heated.

Daven Hi Duty Glastor

These are the ideal resistances for "B" eliminator work. Made in low resistance values with high current carrying capacity, and made with soldering lugs for easy installation.

| | Ohms | Meg. | Cap. | List |
|-------|-----------|-------|------|--------|
| H3776 | 2,500 | .0025 | 28. | \$1.00 |
| H3777 | 4,000 | .004 | 22. | 1.00 |
| H3778 | 5,000 | .005 | 20. | 1.00 |
| H3779 | 8,000 | .008 | 16. | 1.00 |
| H3780 | 10,000 | .01 | 14. | 1.00 |
| H3781 | 12,000 | .012 | 12.5 | 1.00 |
| H3782 | 15,000 | .015 | 11.5 | 1.00 |
| H3783 | 25,000 | .025 | 8.9 | 1.00 |
| H3784 | 50,000 | .05 | 6.35 | 1.00 |
| H3785 | 100,000 | .1 | 4.48 | 1.00 |
| H3786 | 500,000 | .5 | 2.00 | 1.00 |
| H3787 | 1,000,000 | 1. | 1.42 | 1.00 |

how much of an overcurrent is placed on it. This is accomplished by Daven glass. The resistors are made of the glass which is "conducted" following the following:

Daven Leakandenser



Combination Grid Condenser and Leak

The Leakandenser is a new and unique unit, combining compactly a grid leak and a grid condenser. Its use insures against poor detection. It is rugged and moisture-proof and may be depended upon for accuracy and permanency in value. Two mounting clips are supplied with each Leakandenser and its installation in the set is accomplished without the use of a soldering iron.

Daven Leakandenser, 2 meg. H4010—List **\$1.00**

Daven Leakandenser, 3 meg. H4011—List **1.00**

Daven Leakandenser, 4 meg. H4012—List **1.00**

Daven Leakandenser, 5 meg. H4013—List **1.00**

Daven Leakandenser, 7 meg. H4055—List **1.00**

Daven Resistor Manual



A complete handbook upon the use of Resistance Coupled Amplification with various types of receiving circuits. It has been prepared by the Engineering Department of the Daven Radio Corporation in connection with leading radio engineers. It tells of Resistance Coupled

Amplifiers in a simple and non-technical manner. Contains many useful circuit diagrams.

H4013—List **25c**

Daven Special Tubes



Daven MU-20 This tube has been designed for Resistance and Impedance Coupled Amplifiers, in all stages, except the last. As it is a six volt tube, no rheostat is necessary, resulting in a saving of "A" Battery Current. The MU-20 amplifies the signal 20 times instead of 8, as is the case with ordinary tubes. H4007—List **\$4.00**

Daven MU-6 Power Tube, 6-volt, amplification factor 6, for output stage. H4008—List **\$5.50**

Daven Resistor



A complete unit, design and construction amplifier. Has two the plate resistor, resistor. The Daven Condenser is moulded plate resistors, in all (1 meg.). Use grid resistors, in 1st stage meg.; 3rd stage, 1/4 meg. Packed in carton. Priced without resistors. H4003—List **30c**

DAVEN BALLAST

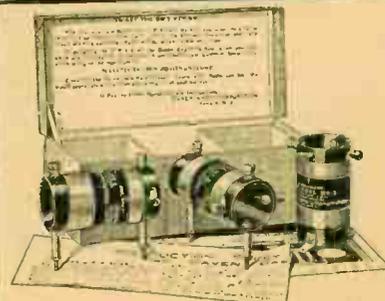
RESISTOR



Eliminates the expense of rheostats, a set look neat, eliminates "A" battery current. Ballast will control the one to five tubes.

- 1/4 amp. for 1 6-volt tube. H4014—List **30c**
- 1/2 amp. for 2 6-volt tubes. H4015—List **30c**
- 3/4 amp. for 3 6-volt tubes. H4016—List **30c**
- 1 amp. for 4 6-volt tubes. H4017—List **30c**
- 1 1/4 amp. for 5 6-volt tubes. H4018—List **30c**

Daven Radio Frequency



To obtain sensitivity necessary to have a reasonably low radio frequency resistance which in turn means a minimum of distributed capacity, copper and dielectric loss. Further, there must be a proper relationship between the turns and inductance of both primary and secondary windings.

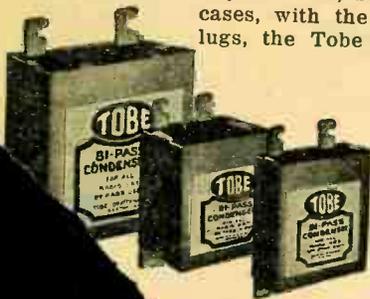
These coils are scientifically designed to give greatest selectivity with perfect balance. Very small fields, no feed back, no self oscillation. Very small for compact work (only 3" long by 1 1/2" diameter). Complete stability. The coils will give the utmost in distance, selectivity and ease of tuning. Designed particularly for the famous Daven Bass Note Circuit, but the most efficient coil for Tuned Radio Frequency Circuits.

To obtain maximum volume it is necessary to have a proper amount of coupling between the secondary and primary winding; this also affects the over-all selectivity of the set. Set of 3 matched coils. No. H4090—List **\$8.00**

Fine Radio **TOBE** *Apparatus*
DEUTSCHMANN

By-Pass Condensers

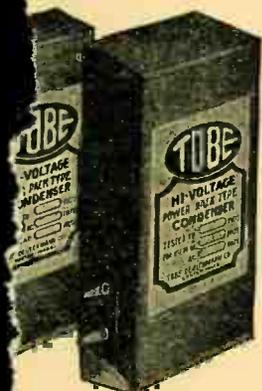
In their beautifully finished, silvered metal cases, with the new ground-lugs, the Tobe Bi-Pass Con-



densers are standard for all by-pass use in radio sets. For this kind of work, noiselessness is a requisite. The Tobe Bi-Pass Condensers are noiseless and unchangeable. They stand extremes of heat and cold without alteration. Insulation is of the order of 150 megohms. Working voltage, 120 volts D. C.

| Sizes | Stock No. | List Price |
|----------|-----------|------------|
| 0.1 Mfd. | H1001 | \$0.60 |
| .25 Mfd. | H1002 | .70 |
| .5 Mfd. | H1003 | .75 |
| 1.0 Mfd. | H1004 | .90 |
| 2.0 Mfd. | H1005 | 1.75 |
| 5.0 Mfd. | H1006 | 3.50 |

Hi-Voltage Power Pack Type Condensers



Especially designed for use in plate supply units and power amplifiers employing working D. C. voltages up to 600 volts. Provided with a new type of terminal

of the condenser case. This brings the terminals where they should be for high voltage convenient ground-lugs for grounding them.

Test, 1,200 volts D. C.; D. C. working voltage, working voltage, 400 volts.

| Height-Width-Thickness | Stock No. | List Price |
|----------------------------|-----------|------------|
| 4 1/2 x 1 1/8 x 1/2 inch | H1007 | \$1.75 |
| 4 1/2 x 1 1/8 x 1/2 inch | H1008 | 2.50 |
| 4 1/2 x 1 1/8 x 7/8 inch | H1009 | 4.00 |
| 4 1/2 x 1 1/8 x 1 1/8 inch | H1010 | 7.00 |

RESISTORS



Vacuum "Tipon" Loewe Leak

A new resistor free from induction and capacity, independent of voltage, atmospheric change or temperature. A current of 1 watt is readily handled, making them suitable for plate grid resistances in all impedance and resistance, coupled to amplifiers and for detector grid leaks.

| | | |
|-----------------------------|-----------------|--------|
| 10,000 ohms (1/100 megohm). | H1011—List..... | \$1.00 |
| 20,000 ohms..... | H1012—List..... | 1.00 |
| 25,000 ohms (1/40 megohm). | H1013—List..... | 1.00 |
| 50,000 ohms (1/20 megohm). | H1014—List..... | .75 |
| 100,000 ohms (1/10 megohm). | H1015—List..... | .75 |
| 250,000 ohms (1/4 megohm). | H1016—List..... | .50 |
| 500,000 ohms (1/2 megohm). | H1017—List..... | .50 |
| 1 megohms. H1018—List..... | | .50 |
| 2 megohms. H1019—List..... | | .50 |
| 4 megohms. H1020—List..... | | .50 |
| 8 megohms. H1021—List..... | | .75 |
| 10 megohms. H1022—List..... | | 1.00 |

B BLOCKS

Designed especially for use with the Raytheon Tube Type B and contains one 8 Mfd.,

two 2 Mfd., and two 1.0 Mfd. TOBE Filter Condensers. The shape reduces the "floor space" required on the base-board, but the height is only 5 3/8 inches, width 4 inches, depth 2 1/4 inches.

Terminals are brought out on the Bakelite binding post strip at the bottom of the block, for shortest and most direct wiring, and in order to keep the connections out of the reach of chance contacts.

For all Raytheon and other plate-supply circuits where the working D. C. voltage does not exceed 300 volts. Type 760—No. H1023—List.....



\$11.00

Raytheon Buffer-Condenser Unit

The Raytheon circuit requires two 0.1 Mfd. Buffer-Condensers on the A. C. side of the tube. The Tobe Deutschmann Company has cased these in a single silvered metal compact case, for easy mounting in the Raytheon B-Eliminator. A ground lug properly tinned is attached to the case so that it may be grounded. Type 311 (contains two 0.1 Mfd. Filter Condensers. No. H1024—List.....

\$1.50

B Blocks—Model 761

Contains one 8 Mfd. and two 2 Mfd. TOBE Filter Condensers and is designed for use either with smaller B-Eliminators without intermediate voltage taps or where it is desired to use separately cased condensers for by-passing these intermediate and detector taps. This block has heavy binding posts at the top instead of at bottom. Type 761—No. H1025

\$9.50

B Block—Model 764

This block is identical in its size and general appearance with Type 760, but it contains three 4 Mfd. condensers and two 1.0 Mfd. condensers. It is especially designed for use in the filter circuit of B-Eliminators and plate-supply units employing either one UX-213 (CX-313) or two UX-216 (CX-316-B) Thermionic Rectifying Tubes, as made by Radio Corporation of America or Cunningham. For use with these tubes, the combination of capacities listed above has been found better than the arrangement necessary for the best results with the Raytheon Tube. Type 764—No. H1026—List.....

\$11.00



Veritas Hi-Current Resistors

A special resistor capable of carrying 4 to 5 watts continuously without change or deterioration. Especially recommended for B eliminator use and other purposes where heavy duty, accurate resistor is required.

| | | |
|-----------------------------|---------------------|--------|
| 2,000 ohms | No. H1027—List..... | \$1.10 |
| 2,500 ohms | No. H1028—List..... | 1.10 |
| 3,000 ohms | No. H1029—List..... | 1.10 |
| 5,000 ohms | No. H1030—List..... | 1.10 |
| 7,500 ohms | No. H1031—List..... | 1.10 |
| 10,000 ohms | No. H1032—List..... | 1.10 |
| 50,000 ohms (1/20 megohm). | No. H1033—List..... | .90 |
| 100,000 ohms (1/10 megohm). | No. H1034—List..... | .80 |
| 250,000 ohms (1/4 megohm). | No. H1035—List..... | .75 |
| 500,000 ohms (1/2 megohm). | No. H1036—List..... | .75 |
| 1 megohm | No. H1037—List..... | .75 |



Radio Products

Nationally Advertised—In Universal Use—New and Advanced Construction.

Rauland Lyric Audio Transformers



When laboratory grade "Rauland-Lyric" audio transformers are installed in any receiver a distinct improvement in tone quality is attained. The unusual design of these transformers enables them to amplify over-tones and harmonics with the utmost fidelity. Try a pair of "Lyrics" in your radio set and see how much easier it is to distinguish the various instruments of the broadcasting artists.

Rauland-Lyric was designed utterly without regard to the question of cost, and is manufactured with painstaking precision solely to provide an amplifying instrument to satisfy the demand of the most critical.

Rauland Lyric. No. H615—
List

\$9.00

The Rauland-Trio is similar in appearance to the Rauland-Lyric, except that it is slightly smaller in size. It is an impedance coupling device containing in one housing the three necessary units—inductance, resistance and capacity, in correctly balanced relation. Type R-300 for first and intermediate stages.

Rauland - Trio



Type R-310 for last audio stage. No. H614.
List

\$6.00

Standard Audio Frequency Transformers



All-American Audios are the largest selling transformers in the world. Since 1919 they have satisfied the demand for an instrument that could be relied upon for clear tone quality. Today they are standard on all the better sets.

Type R-12, Ratio, 3 to 1 No. H 610 **\$4.50**
Type R-21, Ratio, 5 to 1 No. H 611 **4.50**
Type R-13, Ratio, 10 to 1 No. H 612 **4.50**

New Model Audio Transformer



These new type Standard Audio transformers offer all the mechanical and electrical advantages of years of manufacturing experience combined with beauty and attractiveness. Having the All-American feature of superior electrical design.

The heavy steel shell scientifically shields the transformer so as to reduce inter-stage coupling effects.

Type R-14, Ratio 3 to 1. No. H690—List. \$4.50
R-15, Ratio 5 to 1. No. H691—List. 4.50
PUSH-PULL TYPE
Input—R-16, No. H692—List. \$5.00
Output—R-17, No. H693—List. 5.00

Power Amplifying (Push Pull) Transformers

To secure great loud speaker volume, even on distant stations, add to any set a stage of All-American Power Amplification. Tone quality is perfect because the signal current is divided between two tubes which neutralize distortion.



Type R-30, Input Transformer. **\$5**
No. H602

Type R-31, Output Transformer. **\$5**
No. H603



Reproducer

This new cone type reproducer represents the latest loud speaker refinements known to radio science. High trebles and low basses—which with many speakers are lost altogether—are brought out with unusual vividness, even when the amplifier is turned down so low as to reduce reception to almost a whisper. The Lorel Reproducer is ideal for use with Rauland-Lyric-Trio

equipped receivers, because of its ability to reproduce the delicate over-tones as purely as they are amplified. Lorel Reproducer No. H2727. List....

\$25.00

New Toroid Coils



The new ALL-AMERICAN Toroid Coil possesses several features which mark its superiority over the average form of inductance. The closely confined field eliminates troublesome inter-stage coupling, unwanted signals, renders unnecessary the setting of coils at critical angles. This allows the construction of a compact receiver, retaining selectivity and making it possible for the average fan to build a set of laboratory precision.

Range with .00035 condenser, 175 to 550 meters.

TYPE T-1 Antenna coupler **\$3.50**
No. H3222

TYPE T-2 R. F. Transformer **3.50**
No. H3221

Set of three Coils, one Antenna Couplers and two R. F. Transformers. **10.50**
No. H3223

Self-Tuned Radio Frequency Transformers



Effectively amplifies all frequencies within the radiocast range. Each transformer is designed to match the characteristics of a particular type of tube.

Type R-199, for "199" tubes. **\$4.00**
No. H3237

Type R-201A for "201A" tubes. No. **4.00**
H3238

Standard Base and Super-Fine Sockets

This up-to-date Standard Base Socket is so designed as to take both the regular UX-201A and the new UX-201A type of tubes. The Super-Fine Socket is made to fit UV 199 Tubes.

Type R-25 (Standard 201A). No. **\$0.75**
H1847

Type R-26 (Super-Fine 199). No. **\$0.50**
H1848



B Eliminator Transformers



The All-American choke and transformer represent the very highest quality. Only the best materials are used in their construction thus assuring smooth, quiet operation. The type R-7 transformer is equipped with a separable plug for connection to the 110 volt A. C. supply.

Type R-7 "B" Eliminator Transformer, **\$5.00**
110 volt, 60 cycle. No. H694—List.....

Type R-8 "B" Eliminator Choke. No. **4.00**
H695—List



FILTROLA

Shuts Out Any Station Completely

This station eliminator will actually cut the signals from even the most powerful broadcasters. It is especially effective for eliminating nearby stations. By properly manipulating the dials any undesired signals can be kept out thus allowing the opportunity to tune in distant lengths very much closer to the station than would otherwise be possible.

Each instrument is housed in a walnut grained shielded metal case with batteries or other accessories. Each "Filtrola" is a complete unit in itself. Filtrola No. H1289. List.....

CONSTANT "B"

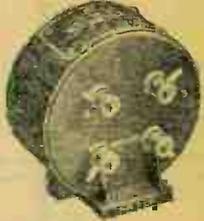


With this new 3" Power supply your "B" voltage is kept constantly up to standard. With it there is no acid, no burned out filament, no hum. Each "Constant-B" is delivered complete with tube and all necessary attachments. Constant "B" complete with Raytheon tube. Type A-1, 110 volt, 50-60 cycle. No. H2172—
\$37.50
List

Type A-3, 110 volt, 25-40 cycle. No. H2164—
List

Radio Frequency (Oscillator) Coupler

This coupler makes possible a uniform output at any frequency within its range—from 150 to 650 meters, housed in a Bakelite case, unaffected by dust or moisture.



Type R-130. **\$5.00**
No. H3235. List

3-Tube Reflex Kit



This is the best possible 3-tube set for all around use. All parts are mounted. Fasten base and panel together and wire. Complete instructions with each kit. Kit No. H2643. New low price...

\$34.00

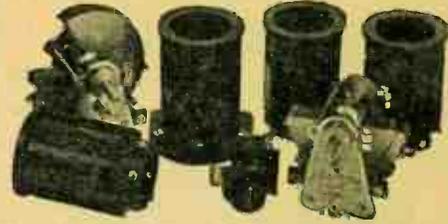
| SUGGESTED COMBINATION | |
|---|---------|
| 1-3 tube kit | \$34.00 |
| 3 American 201A tubes | 6.00 |
| 1-No. 90 American "A" storage bat. | 18.00 |
| 2-2301 45 volt "B" bat. | 7.50 |
| 1 American Beauty Cone Speaker. | 16.00 |
| 1 American antenna | 3.50 |
| Complete Outfit No. H2643C—Total. | \$85.00 |

SILVER-MARSHALL RADIO PARTS

SHORT WAVE KIT

An unusually good outfit for receiving the low wave length signals of amateur stations. Carefully constructed of matched essentials and is unequaled in its range of 18 to 150 meters, with practically unlimited distance range. The kit consists of a set of Type 117 plug-in coils, 515 coil socket, 340 antenna coupling condensers and a pair of 317 tuning condensers. With the four coils supplied, signals fall well in the center of the tuning condenser scale and may be shifted as desired, irrespective of normal antenna lengths.

You can build up this kit, using a pair of 220 transformers for audio amplification, thus making a 3-tube set which will give excellent distance reception, even in summer. Full instructions furnished with each kit. No. 635 **\$23.00** short wave kit, complete No. H3219, List.....



Low Loss Inductances and Six Contact Special Socket

are available in a number of stock sizes, suitable for circuit. The number designates different winding after following the number designates the wave used with a .00035 mfd. condenser (311 or 316). to a standard No. 515 coil socket, thus allow- of different range coils in a receiver.

as an oscillator, antenna adapter, etc. It stator and single rotor windings.

| | |
|---------------------|--------|
| rs. H1060—List..... | \$2.50 |
| rs. H1061—List..... | 2.50 |
| rs. H1062—List..... | 2.50 |
| rs. H1063—List..... | 3.25 |
| rs. H1064—List..... | 3.50 |

as an R. F. transformer, oscillator, etc. It and one small stator winding and a single

| | |
|---------------------|--------|
| rs. H1065—List..... | \$2.50 |
| rs. H1066—List..... | 2.50 |
| rs. H1067—List..... | 2.50 |
| rs. H1068—List..... | 3.25 |
| rs. H1069—List..... | 3.50 |

as an R. F. transformer, antenna adapter, stator and a single rotor winding.

| | |
|---------------------|--------|
| rs. H1070—List..... | \$2.50 |
| rs. H1071—List..... | 2.50 |
| rs. H1072—List..... | 2.50 |
| rs. H1073—List..... | 3.25 |
| rs. H1074—List..... | 3.50 |

Type 113 is unground form provided with six contacts and adjustable rotor for 113 unground form complete..... 1.25

Type 114 may be used as an R. F. transformer, antenna adapter, etc. Provided with one large and one small stator winding and a single rotor winding.

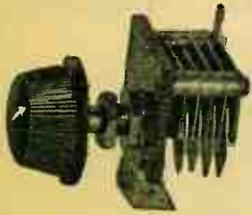
| | |
|--|--------|
| Type 114A. 190-550 meters. H1080—List..... | \$2.50 |
| Type 114E. 90-210 meters. H1081—List..... | 2.50 |
| Type 114C. 50-110 meters. H1082—List..... | 2.50 |
| Type 114D. 550-1250 meters. H1083—List..... | 3.25 |
| Type 114E. 1200-1800 meters. H1084—List..... | 3.50 |

515 six-contact socket for all types..... 1.00

COMPENSATING CONDENSER

No. 340 condenser is a small .000025 mfd. adjustable condenser designed for compensating, balancing or neutralizing. It is supplied with brass plates, mounted on a bakelite end plate, size 1 1/2 inch wide, 1 inch deep and 1 1/2 inch high. Furnished for single hole panel mounting and with bracket for base mountings. Complete with control knobs.

No. 340 Condenser H1666. List..... **\$1.50**



Long Wave Transformers

Designed to meet the demand for long wave amplifying transformers of definitely known characteristics. Sets of 3 (two 210 and one 211) laboratory matched.

Type 210 is a long wave interstage peaking at 60 kilocycles. The small silicon steel core gives it the best features of both the iron-core and air-core types. Ratio, 1 to 2.3.

Type 210 Transformer No. H1213. List..... **\$6.00**

Type 211 is a sharply tuned transformer to match up with 210, air core type, ratio 1:10. Furnished with 60 K. C. tuning condenser to be connected across its primary (P to B). Type 211 Transformer

No. H1214. List..... **\$6.00**



CONDENSER

Gives electrical uniformity and mechanical rigidity necessary for unicontrol circuits. Both rotor and stator plate sections, of lacquered brass, are adjustable, as are both front and rear bearings. Mounts on either base or panel. Made of nickel plated brass, held together by riveted steel tie-bars. Capacity .000007 to .00035 mfd.

Type 316 A Condenser No. H1660, List..... **\$4.50**



Variable Condensers

These condensers possess many different mechanical and electrical characteristics.

Type 310 and 311 are single bearing types, with plates so cut that a substantially straight line frequency tuning curve will be obtained in standard circuits.

Type 305 is of similar mechanical construction, but giving a straight line wave length curve.

The above condensers consist of aluminum stator and rotor plate sections, fastened to a single die-cast end plate. The rotor is controlled through a single, long cone bearing, with adjustable take-up and spring tension, with adjustable take-up only. Size 3 inches square and from 2 1/2 inches to 3 inches deep.

Provided for four-hole panel mounting only. Size 3 inches square and from 2 1/2 inches to 3 inches deep. Type 316 is an S. L. F. condenser of the double bearing type, designed to permit mechanical interlocking of several condensers with but a single control.

Type 320 is an S. L. W. condenser, similar mechanically to Type 316. Both of these types are supplied with permanent-finish brass plates, the stator section being rigidly held in place in a U-shaped die-cast frame, which also carries the two adjustable rotor bearings — of a self-centering cone type. A special feature of this type is the possibility of gang control, since any number of condensers may be placed one behind the other and their shafts locked together for a single control dial. Provided for single or double hole panel and two-hole base mounting. Size 3 inches wide, 3 1/4 inches high and 2 3/4 inches deep.

| No. | Capacity | Type | Price |
|----------|-----------------------|-------|--------|
| No. 305. | .0005 mfd. SLW type. | H1667 | \$4.75 |
| No. 310. | .0005 mfd. SLF type. | H1668 | 6.00 |
| No. 311. | .00035 mfd. SLF type. | H1669 | 5.75 |
| No. 316. | .00035 mfd. SLF type. | H1670 | 5.75 |
| No. 320. | .0005 mfd. SLW type. | H1671 | 5.75 |

AUDIO TRANSFORMER—Gives about 90% of

the amplification at 30 cycles that is obtainable at 1000 cycles. From 1000 cycles on drops off to compensate for commercial loud-speakers. Turn ratio 3:1 and should be used in any and all stages. Guaranteed to give better quality than any other amplifying device. Use with new or any standard type of tube.

Type 220 Audio Transformer No. H1163. List \$6.00

OUT-PUT TRANSFORMER—Use between last power tube and speaker in any audio amplifier. Increases speaker capacity several hundred per-



cent. Greatly improves quality on factory made sets. Type 221 Out-put Transformer No. H1164. List..... \$6.00

POWER TRANSFORMER—Designed for Raytheon or Rectron tubes. It has two 300-volt secondaries, a 110-volt, 60-cycle primary and a 7.5 volt filament lighting winding. Rated at 85 milliamperes continuous duty without hearing.

Type 330 Transformer No. H1165. Price..... \$6.00

UNICHOKE—A two-winding high inductance filter choke licensed under the Clough Patent Application. Its current capacity is 85 milliamperes. Its filtration is guaranteed to be superior to that of other standard power supply filters.

Type 331 Unichoke No. H1166. Price..... \$6.00

CONDENSER BANK—Contains two 1/10th mf., two 2 mf., two 1 mf., and one 4 mf. condensers, tested at 700 volts D. C. It is intended for use in "A," "B" or "C" power supply filters.

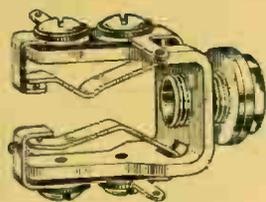
Type 332 No. H1167. Price..... \$10.00

SILVER-SHIELDED SIX IS ANOTHER LOOK. SEE PAGE 38

FROST-RADIO

Parts

NEW GEM-JAC



FROST-RADIO

Extends only 1 inch behind panel. Greater throw and more positive contact. No. 553—Single open circuit. H997—List. 40c
No. 954—Single closed circuit. H998—List. 45c
No. 955—Single circuit. Filament control jack. H999—List. 50c

PHON TIP JACKS



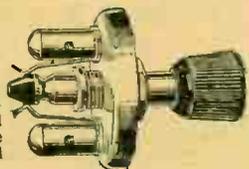
This allows an instant connection by inserting phone tips. Eliminates unsightly and inefficient binding posts on panel. No. 253. H890—List. 20c

TOGGLE SWITCH



A new design in battery switches. Easily mounted on panel with two bolts. Positions ON and OFF plainly marked. Moulded of genuine bakelite. Black finish. No. 522. H1805—List price, each. 50c

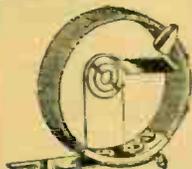
PUSH-PULL SWITCH



A small neat battery switch, nickel plated. Single hole mounting. Push-pull type. No. 608. H300—List. 30c

FROST-RADIO

RESISTANCE UNIT



35 ohm heavy duty resistance unit to be used behind panel where rheostat is not desired. No. 630. H212—List. 30c

FROST-RADIO

GROUND CLAMP



A new and useful clamp. Large surface insures positive connection. Requires no tools to install. Connects ground wire to pipe 1 to 2 inches in diameter. No. 800. H800—List. 30c

FROST-RADIO

AUTOMATIC PLUG



An exceptionally good double phone plug. There is an automatic clamping device that securely binds the tips which makes a quick and positive contact. No. 141. H982—List. 75c

SINGLE PHONE PLUG



For use where only one set of terminals are to be used. Neatly finished and of rugged construction. No. 142. H883—List. 40c
Same as above but fitted with two pairs of terminals. No. 143. H884—List. 50c

FROST-FONES



Frost-Fones reproduce faithfully all notes within range of voice and music much to the satisfaction of the set owner, especially when conditions make good loud speaker reception an impossibility. Frost-Fones are also extremely sensitive to weak signals from DX stations.

- No. 172—Frost Fone, 3200 ohm, bakelite shell and cap type. H3080—List. \$6.00
- No. 174—Frost Fone, 2000 ohm, head-set, aluminum shell type. H3031—List. 3.00
- No. 175—Frost Fone, 4000 ohm aluminum shell type. H3032—List. 3.50

Accessories

NEW SOCKET



This new type based on all previous satisfactory terminal connections down placed at the bottom of the case.

placed at the bottom of the case. Connections down in three-minute Type A C. Size 0.5 1.0 2.0 4.0 6.0 8.0 10.0 12.0 15.0 20.0 25.0 30.0 35.0 40.0 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0

ANTENNA



- No. 710—25 feet. H785—List. \$1.90
- No. 711—50 feet. H786—List. 3.75
- No. 712—75 feet. H787—List. 5.00
- No. 713—100 feet. H788—List. 6.25

For distance, selectivity and clarity nothing equals this new type antenna, center wire is copper, outside is copper braid. Heavy insulation between.

TWO ADAPTERS



FROST-RADIO

No. 540—This new adapter fits the new CX299, UX199, CX220 and UX120 tubes, making them useable in the present standard base sockets. No need to rebuild set for new tubes. H1873—List. 25c

No. 611—Fits any standard socket and allows CX299 and UX199 tubes to be used. Maroon bakelite. No. 611. H9. 60c

Black bakelite in high lustre with soldering lugs. No. 530. H1874. Price

EXTENSION CORDS



FROST-RADIO

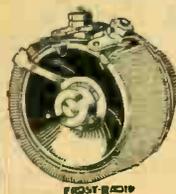
- These extensions permit speaker to be used at a convenient place away from set.
- No. 330—10-foot cord. H885. \$2.00
 - No. 331—20-foot cord. H886. 2.25
 - No. 332—30-foot cord. H887. 2.50
 - No. 336—Mounted jack only. H861. .75
 - No. 337—12-inch cord with cord tips and mounted jack complete. H862. 1.00

JAC-BOX

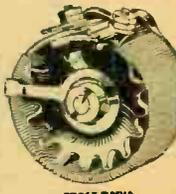


This is a very convenient terminal box and can be used in many ways where several speakers or headphones are desired. Enclosed in beautiful mahogany case with jacks to cure of four plugs at once. No. 501. H190—List. \$2.50

RHEOSTATS and POTENTIOMETERS



Designed for the new style high efficiency tubes such as power amplifiers and detector tubes. To effectively control volume and filament voltage we recommend these rheostats because they have sufficient carrying capacity for efficient operation without over heating. Made in one piece metal frame, also in genuine bakelite. Exact contact with even pressure at all times insures exceptional noiselessness in operation. They are 1 1/2 inches in diameter. Single hole mounting. Equipped with flanged pointer knob.



Super Variable Resistances

These variable resistance units are designed for use in receiving sets wherever a variable high resistance is needed. For example: To control volume and tone; as resistance elements in resistance coupled amplifiers; to control regeneration; to stabilize E. F. Circuits; to place across secondary of audio transformers for improving tone. Enclosed in highly polished brass case with dust-proof cover. Complete with flanged pointer knob. They are smooth and quiet in operation, have large current capacity and do not vary after long use.

| Metal Frame | | RHEOSTATS | | Type 800 Bakelite Frame | |
|-------------|-----------|-----------|-------|-------------------------|-----------|
| No. | Stock No. | List | Ohms | No. | Stock No. |
| 702 1/2 | H721 | \$0.50 | 2 1/2 | 802 1/2 | H735 |
| 703 | H722 | .50 | 3 | 803 | H736 |
| 703 1/2 | H723 | .50 | 3 1/2 | 803 1/2 | H737 |
| 704 | H724 | .50 | 4 | 804 | H738 |
| 705 | H725 | .50 | 5 | 805 | H739 |
| 706 | H726 | .50 | 6 | 806 | H740 |
| 707 | H727 | .50 | 7 | 807 | H741 |
| 710 | H728 | .50 | 10 | 810 | H742 |
| 720 | H729 | .50 | 20 | 820 | H743 |
| 730 | H730 | .50 | 30 | 830 | H744 |
| 750 | H731 | .50 | 50 | 850 | H745 |
| 775 | H732 | .50 | 75 | 875 | H746 |

| Metal | | POTENTIOMETERS | | Bakelite | |
|-------|-----------|----------------|------|----------|-----------|
| No. | Stock No. | List | Ohms | No. | Stock No. |
| 722 | H733 | \$0.75 | 200 | 822 | H747 |
| 722 | H734 | .75 | 100 | 822 | H748 |

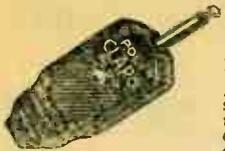
| Type 830 (2 Terminals) | | | Type 850 (3 Terminals) | | |
|------------------------|-----------|--------|------------------------|-----|-----------|
| No. | Stock No. | List | Ohms | No. | Stock No. |
| 880 | H755 | \$1.25 | 50,000 | 890 | H755X |
| 881 | H755 | 1.25 | 100,000 | 891 | H756X |
| 882 | H757 | 1.25 | 200,000 | 892 | H757X |
| | | | 400 | 894 | H755 |
| | | | 500,000 | 895 | H756X |
| | | | 2,000 | 896 | H760 |

WE SELL WHOLESALE TO LEGITIMATE DEALERS ONLY

The Famous POLYMET PRODUCTS

"World's Largest Manufacturers of Radio Essentials." Millions used in Nationally Known Set.

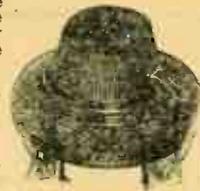
"POLY" CLARO PLUG



Clarifies and harmonizes loud speaker reception. Adds body, detail and definition to the tone. You'll never know just how good your radio set or loud speaker is until you have added a Poly Claro Plug. Easy to attach. Has manufacturer's guarantee to improve tone quality of speaker. Claro-Plug No. H893—List **\$1.50**

E-Z STAT RHEOSTAT

Special features make this supreme. Resistance element held securely by metallic holders. Wire tightly held in grooves in fibre by special process. Contact arm of phosphor bronze permanently adjusted and cannot work loose. Binding posts act as lugs making soldering easier and better. Selected as standard equipment by over 30 leading manufacturers of the United States.



Type 200—6-ohm, No. H1113—List.....\$0.75
 Type 301—10-ohm, No. H1114—List..... .75
 Type 302—20-ohm, No. H1115—List..... .75
 Type 303—30-ohm, No. H1117—List..... .75
 Potentiometers—Construction similar to rheostats.
 Type 400—200-ohm, No. H1111—List.....\$1.00
 Type 401—400-ohm, No. H1112—List..... 1.25

E-Z PLUG



Similar in construction to Polyplug, except shell is made of composition material. Selected by leading loud speaker manufacturers as standard equipment. Fits all standard phone jacks. Type 201 E-Z Plug, No. H895—List..... **35c**

GRID LEAKS

Resistance of Polygrid Leaks is absolutely controlled. Each unit is individually tested and reading marked guaranteed dependable. Selected for its quality by manufacturers of Receiving Sets.



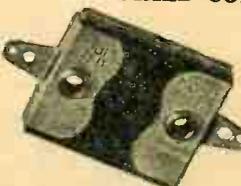
Caps are screw machine products and resistance sealed, eliminating any effects from atmospheric changes. 1/4 to 10 Megohms. No. H1118—List..... **25c**

POLY PLUG



The leader in the field of automatic phone plugs. Perfectly constructed in genuine Bakelite. No screws to tighten—attached in an instant. Polarity marked on sleeve. Eliminates the many inconveniences attendant upon the use of the unsatisfactory 101 Polyplug. **50c**

FIXED CONDENSERS

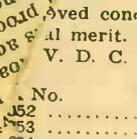


Highest quality material used in construction and housed in Genuine Bakelite. Individually tested and capacities stamped are guaranteed to be accurate. Selected by U. S. manufacturers as standard equipment.

| Size | Mfd. | List | Size | Mfd. | List |
|--------|-------|--------|------|-------|--------|
| .00015 | H3041 | \$0.25 | .003 | H3047 | \$0.45 |
| .00025 | H3042 | .30 | .004 | H3048 | .55 |
| .0005 | H3043 | .30 | .005 | H3049 | .65 |
| .001 | H3044 | .35 | .006 | H3050 | .70 |
| .002 | H3045 | .35 | .01 | H3051 | 1.00 |
| .0025 | H3046 | .40 | | | |

All of the above have soldering lugs attached.
 .00025 with mtg. clips for Grid Leaks, No. H3070—List.....\$0.40
 .0005 with mtg. clips for Grid Leaks, No. H3071—List..... .40

CLASS CONDENSERS

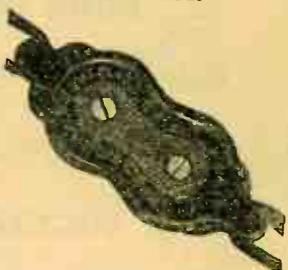


Improved condensers of equal merit. Guaranteed V. D. C. breakdown.

| No. | List |
|--------|--------|
| H1152 | \$0.60 |
| H1153 | .70 |
| H1154 | .80 |
| H1155 | 1.00 |
| H1156 | 1.50 |
| H1157 | 2.50 |
| H1158 | 3.50 |
| H13059 | 4.50 |

EXTENSION CONNECTOR

Every owner of a loud speaker or head phones should have one. This connector enables the use of speaker or phone in any room desired without moving the set. No tools required to attach. Nothing to get out of order.



Connector only, H896—List...\$0.35
 Connector with 25-ft. cord, H896A—List.....\$1.50
 Connector with 35-ft. cord, H896B—List...\$1.75
 Connector with 50-ft. cord, H896C—List... 2.00

Panel Light

With this convenient light mounted on the panel of your set, you can see to make accurate tunings even in the dark. Mounts in a single 1/2-inch panel hole.
 No. 250—Panel Light, H1970—List.....\$2.50
 Lamp Extra. H1970X, List.....\$0.30

YAXLEY

Correct Design Superior Construction

Yaxley Products meet the most exacting radio requirements and are made to give reliable and lasting service.

Midget Battery Switch

An efficient filament control switch. One nut mounting in single 1/2-inch panel hole. Tinned terminals for soldering. Complete with "Off" and "On" plate. No. 10—Midget Battery Switch, H1971—List..... **50c** YAXLEY No.10

YAXLEY RADIO JACKS

The springs of Yaxley Jacks are heavy phosphor bronze with pure silver contacts—No pitting or breaking down in service. Frames are brass. All Bakelite insulation. Mount in 1/2-inch panel hole without adjusting collars. Fit any standard Radio plug.

| | |
|--|--|
| No. 1—Open Circuit, H1986—List.....\$0.50 | No. 4—Interstage, H1992—List.....\$0.80 |
| No. 2—Circuit Closing, H1987—List.....\$0.60 | No. 4A—Two Circuit filament Control, H1993—List.....\$0.80 |
| No. 2A—Two Circuit, H1988—List.....\$0.60 | No. 5—Two Circuit Filament Lighting, H1994—List.....\$0.90 |
| No. 3—Single Circuit filament Control, H1989—List.....\$0.70 | No. 6—Interstage Filament Control, H1995—List.....\$1.00 |
| No. 3A—Circuit Reversing, H1990—List.....\$0.70 | No. 7—Interstage Filament Lighting, H1996—List.....\$1.10 |
| No. 3C—Double Circuit, H1991—List.....\$0.70 | |

A and B Voltmeter Switch

A double-throw non-locking switch to be used in connection with a voltmeter for conveniently reading both A and B bats. One nut mounting in a single 1/2-inch panel hole. No. 12, with Designation Plate. H1968—List..... **\$1.25**

PILOT LIGHT SWITCH

The pilot light shows whether the set is on or off. Adds to the attractions of any set and saves a needless drain on the batteries. Easily installed.
 No. 210—Pilot Light Switch, H1972—List... **75c**
 Lamp Extra. H1972X— **30c**

Cable Markers

Easily read, convenient to attach. Packed one set of eleven in a box as follows: A+, A-, B-, C+, C-, B+Det, B+Amp, B+RF, B+PR, ANT, GRD. Set of eleven markers. H1969—List..... **25c**

Pup Jack

Pup Jack—Easy to mount on front, sub or rear panels. Ideal for phone tips and for use as binding posts. No. 416—Pup Jack, H1984—List..... **15c**

Pup Plug

Pup Plug—Designed for use with Pup Jack and to serve as a phone tip without soldering. No. 415—Pup Plug, H1985—List..... **10c**

Rheostats and Potentiometers

Air cooled. Smooth as silk in operation. Mounts in single 1/2-inch panel hole. Complete with Black Bakelite Knob.

| Series | Stk. | Ohms | List |
|--------|-------|------|--------|
| No. | | | |
| 102K | H1973 | 2 | \$1.35 |
| 13K | H1974 | 3 | 1.35 |
| 16K | H1975 | 6 | 1.35 |
| 110K | H1976 | 10 | 1.35 |
| 115K | H1977 | 15 | 1.35 |
| 120K | H1978 | 20 | 1.35 |
| 125K | H1979 | 25 | 1.35 |
| 130K | H1980 | 30 | 1.35 |
| 140K | H1981 | 40 | 1.35 |
| 160K | H1982 | 60 | 1.35 |
| 199K | H1983 | 90 | 1.35 |

POTENTIOMETERS

| No. | List |
|------|-----------------|
| 200 | H1977 200 1.75 |
| 400 | H1988 400 1.75 |
| 1000 | H1999 1000 2.00 |

ALWAYS BUY YOUR RADIO STOCK FROM US—YOU'LL SAVE MONEY

Dubilier CONDENSERS

Dubilier condenser units, due to their standard, unvarying capacities, are used by all the better class set manufacturers, and are specified as standard parts in many well known circuits. Made of the best Micarta Bakelite insulation, known for its extremely low loss. Built under exclusive patented methods, used only by the Dubilier company. All types and capacities are made to meet the requirements of practically every circuit.



MICADON 601

An accurate pressed mica condenser, the standard of fixed radio condensers. With solder lugs. Tested at 600 volts D. C.

| Capacity | Stock No. | List | Capacity | Stock No. | List |
|------------|-----------|--------|------------|-----------|--------|
| .0005 mfd. | H440 | \$0.35 | .0015 mfd. | H441A | \$0.40 |
| .001 mfd. | H440A | .35 | .002 mfd. | H441B | .40 |
| .0015 mfd. | H440B | .35 | .0025 mfd. | H441C | .40 |
| .0025 mfd. | H440C | .35 | .003 mfd. | H442 | .50 |
| .005 mfd. | H440D | .35 | .004 mfd. | H442A | .50 |
| .01 mfd. | H441 | .40 | .005 mfd. | H443 | .60 |

MICADON 601-T

Micadon type 601-T is equipped with special clips which permit its being mounted directly across most transformer terminals. These clips also permit convenient mounting across two binding posts.

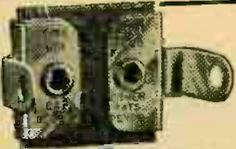
| Capacity | Stock No. | List |
|------------|-----------|--------|
| .0005 mfd. | H445 | \$0.40 |
| .001 mfd. | H446 | .45 |
| .002 mfd. | H446A | .45 |



MICADON 601-G

Equipped with special clips on which any of the usual tubular types of grid leaks or resistances may be mounted.

| Capacity | Stock No. | List |
|------------|-----------|--------|
| .0001 mfd. | H891 | \$0.40 |
| .0005 mfd. | H891A | .40 |
| .005 mfd. | H891B | .40 |



NEW MICADON 700

Condenser unit enclosed in an aluminum case. Provision for either screw or solder assembly. Can even be used in low power vacuum tube transmitters. Tested at 1500 volts D. C.

| Capacity | Stock No. | List |
|-------------|-----------|--------|
| .00025 mfd. | H454 | \$0.40 |
| .0005 mfd. | H455 | .40 |
| .001 mfd. | H456 | .45 |
| .002 mfd. | H457 | .45 |
| .0025 mfd. | H458 | .45 |



| Capacity | Stock No. | List | Capacity | Stock No. | List |
|-----------|-----------|--------|------------|-----------|--------|
| .003 mfd. | H475 | \$0.55 | .0075 mfd. | H495 | \$0.90 |
| .004 mfd. | H476 | .55 | .01 mfd. | H496 | 1.00 |
| .005 mfd. | H477 | .65 | .015 mfd. | H497 | 1.50 |
| .006 mfd. | H478 | .80 | .02 mfd. | H498 | 1.75 |



MICADON 640

Because of their great capacity range and insulation for high voltage these condensers are especially suited for use as a by-pass in super-heterodyne and reflex circuits. 2 1/4 inches long and 1 1/8 inches wide. All are tested at 1100 volts D. C.

| Capacity | Stock No. | List | Capacity | Stock No. | List |
|-------------|-----------|--------|------------|-----------|--------|
| .00025 mfd. | H455 | \$0.40 | .004 mfd. | H457A | \$0.55 |
| .0005 mfd. | H455A | .40 | .005 mfd. | H458 | .65 |
| .001 mfd. | H456 | .45 | .006 mfd. | H459 | .80 |
| .002 mfd. | H456A | .45 | .0075 mfd. | H460 | .90 |
| .0025 mfd. | H456B | .45 | .01 mfd. | H461 | 1.00 |
| .003 mfd. | H457 | .55 | .015 mfd. | H462 | 1.50 |
| | | | .02 mfd. | H463 | 1.75 |

NEW PAPER CONDENSERS—Filter Type

Designed for use in filter circuits but can be used for many other purposes. Developed to a high degree in the Dubilier laboratories. Each condenser given thorough tests before leaving the factory.

| Type | Capacity | D. C. Rated Working Voltage | Stock No. | List |
|------|----------|-----------------------------|-----------|--------|
| 901 | 1 mfd. | 160 volts | H2245 | \$1.50 |
| | 2 mfd. | 160 volts | H2246 | 2.00 |
| | 4 mfd. | 160 volts | H2247 | 3.25 |
| | 6 mfd. | 160 volts | H2248 | 4.25 |
| 902 | 1 mfd. | 400 volts | H2249 | 2.00 |
| | 2 mfd. | 400 volts | H2250 | 3.00 |
| | 4 mfd. | 400 volts | H2251 | 5.50 |
| 903 | 6 mfd. | 400 volts | H2252 | 7.50 |
| | 1 mfd. | 600 volts | H2253 | 3.00 |
| | 2 mfd. | 600 volts | H2254 | 5.50 |
| | 4 mfd. | 600 volts | H2255 | 9.50 |
| | 6 mfd. | 600 volts | H2256 | 13.50 |



TYPE PL-90

For Raytheon "B" Eliminators

This case contains the entire capacity required in the Raytheon filter circuit. Taps are provided at 2, 2, 8, 1 and 5 mfd. Has a continuous D. C. operating voltage of 160 volts.

Type PL-91—A .1-1 mfd. high voltage condenser to be used across the secondary of the input transformer. Operates at 400 volts D. C. P. L.-90. No. H2257; 9.50 PL-91, No. H2258—List\$2.00



BY-PASS TYPE

Same careful construction and testing as in the filter type condensers. Special mounting feet and design require less mounting space than in old types.

| Capacity | D. C. Rated Working Voltage | Stock No. | List |
|-----------|-----------------------------|-----------|--------|
| 0.1 mfd. | 160 volts | H2240 | \$0.60 |
| 0.25 mfd. | 160 volts | H2241 | .70 |
| 0.5 mfd. | 160 volts | H2242 | .75 |
| 1.0 mfd. | 160 volts | H2243 | .90 |
| 2.0 mfd. | 160 volts | H2244 | 1.75 |



DURATRAN TRANSFORMERS

A fixed radio frequency transformer covering the broadcast wave lengths from 225 to 550 meters. Used after the first tuned stage in radio frequency amplifiers—thereby eliminating one control. For use in portable loop sets it is without equal. The Duratran maintains an amplification factor of over 15 throughout the entire wave band it covers. Duratran. No. H646—List\$4.00



Ducon-Light Socket Aerial

Works on any receiver. Will usually improve reception by making tuning sharper and reducing static. Ducon No. H4086—List.....\$1.50

AMPERITE The Self-Adjusting Rheostat

Eliminates all forms of hand rheostats. Permits uniformly efficient operation of tube filaments. Operates on thermo-electric principle. Consists of a special filament surrounded by an inert gas. Filament has property of changing resistance as the "A" battery voltage changes.

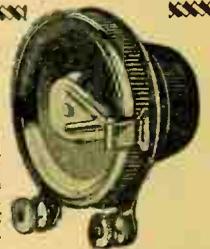


PRICED COMPLETE WITH MOUNTING

| | | |
|---|-----------------|--------|
| No. 1A—For 201A and similar tubes. 6 volts. | H221—List..... | \$1.10 |
| No. 4V-199—For 199 and similar tubes. 4 volts. | H223—List..... | 1.10 |
| No. 6V-199—For 199 and similar tubes. 4 volts. | H223A—List..... | 1.10 |
| No. 112—For 112 and similar tubes. 6 volts. | H224—List..... | 1.10 |
| No. 120—For 120 and similar tubes. 4 volts. | H225—List..... | 1.10 |
| No. D-11—For WD11 and similar tubes. 1 1/2 volts. | H222—List..... | 1.10 |
| No. 1—For all 5-volt tubes on 6 volts. | H226—List..... | 1.10 |

New Centralab Rheostat

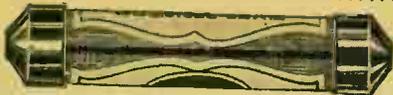
The new circuits using one rheostat to control several tubes, and new tubes using increased current, overload older designs of rheostats, making them overheat and noisy in service. Wound with flat ribbon instead of wire it gives a heavy current capacity without noise. Will handle from five to ten tubes and give noiseless control. Bakelite knob, metal parts of brass or spring bronze. Diameter 2 inches. One hole mounting.



| | | |
|---|----------------|--------|
| No. 230 Rheostat, 30 ohms, wire wound, for 1 tube. | H713—List..... | \$1.00 |
| No. 220 Rheostat, 20 ohms, wire wound, for 1 or 2 tubes. | H714—List..... | 1.00 |
| No. 210 Rheostat, 10 ohms, wire wound, for 2 or 3 tubes. | H716—List..... | 1.00 |
| No. 206 Rheostat, 6 ohms, wire wound, for 4 or 5 tubes. | H717—List..... | 1.00 |
| No. 203 Rheostat, 3 ohms, ribbon wound, for 5 to 7 tubes. | H718—List..... | 1.25 |
| No. 202 Rheostat, 2 ohms, ribbon wound, for 7 to 10 tubes | H719—List..... | 1.25 |

TRY US ON RUSH ORDERS

**LYNCH METALLIZED
FIXED RESISTORS**



The Lynch Metallized Resistor is warranted absolutely noiseless, permanently accurate, dependable!

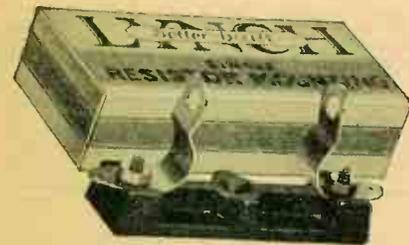
We cheerfully replace, free of charge, any resistors that develop noise, open-circuit or are in any way defective either mechanically or electrically.

| | | | |
|------|------------|------|---------|
| Meg. | Ohms | Meg. | Ohms |
| .25 | 250,000 | .012 | 12,000 |
| .3 | 300,000 | .015 | 15,000 |
| .5 | 500,000 | .025 | 25,000 |
| .75 | 750,000 | .03 | 30,000 |
| 1 | 1,000,000 | .04 | 40,000 |
| 1.5 | 1,500,000 | .05 | 50,000 |
| 2 | 2,000,000 | .06 | 60,000 |
| 2.5 | 2,500,000 | .075 | 75,000 |
| 3 | 3,000,000 | .1 | 100,000 |
| 3.5 | 3,500,000 | .125 | 125,000 |
| 4 | 4,000,000 | .15 | 150,000 |
| 5 | 5,000,000 | .2 | 200,000 |
| 6 | 6,000,000 | | |
| 7 | 7,000,000 | | |
| 8 | 8,000,000 | | |
| 9 | 9,000,000 | | |
| 10 | 10,000,000 | | |

Specify Meg. and Ohms Required
Lynch Heavy Duty Resistors

| | | |
|-----------------|--|-----|
| Stock No. H3611 | 1,000 ohms suitable for 2.5, 5 and 10 watts | 50c |
| Stock No. H3613 | 1,500 ohms suitable for 2.5, 5 and 10 watts | |
| Stock No. H3613 | 2,000 ohms suitable for 2.5, 5 and 10 watts | |
| Stock No. H3613 | 2,500 ohms suitable for 2.5, 5 and 10 watts | |
| Stock No. H3613 | 3,000 ohms suitable for 2.5, 5 and 10 watts | |
| Stock No. H3613 | 4,000 ohms suitable for 2.5, 5 and 10 watts | |
| Stock No. H3613 | 5,000 ohms suitable for 2.5, 5 and 10 watts | |
| Stock No. H3613 | 6,000 ohms suitable for 2.5, 5 and 10 watts | |
| Stock No. H3613 | 7,000 ohms suitable for 2.5, 5 and 10 watts | |
| Stock No. H3613 | 8,000 ohms suitable for 2.5, 5 and 10 watts | |
| Stock No. H3613 | 9,000 ohms suitable for 2.5, 5 and 10 watts | |
| Stock No. H3613 | 10,000 ohms suitable for 2.5, 5 and 10 watts | |

Each All 2.5 watt sizes 1 1/2 ins. long. H3616.. \$1.25
All 5 watt sizes 3 ins. long. H3617.. 1.50
All 10 watt sizes 3 ins. long. H3618.. 1.80



MOUNTINGS

Lynch Single Better-Built Mountings. No. H3614. 35c
List

Double Better-Built Mountings. No. H3615. 50c
List

**POTTER
CONDENSERS**

BY PASS



These condensers are designed for by-pass purposes, but are of such quality as to make them applicable to sets and circuits where high "B" voltages are used, as well as safe on circuits where "B" current supply sets are used.



safe on circuits where "B" current supply sets are used.

| Code | Capacity | D. C. Test | Working Voltage | | Stock No. | List | Size |
|------|----------|------------|-----------------|-------|-----------|------------------------|------|
| | | | D. C. | No. | | | |
| 1 | .1 MFD | 200V | 200 | H4230 | \$0.60 | 1 1/2 x 2 x 5/8" | |
| 2 | .25 MFD | 200V | 200 | H4231 | .70 | 1 1/2 x 2 x 5/8" | |
| 3 | .5 MFD | 200V | 200 | H4232 | .75 | 1 1/2 x 2 x 5/8" | |
| 4 | 1. MFD | 200V | 200 | H4233 | .90 | 1 3/4 x 2 x 5/8" | |
| 5 | 2. MFD | 200V | 200 | H4234 | 1.50 | 1 1/2 x 3 1/4 x 1 1/4" | |

FILTER CONDENSERS

Designed for heavy duty filter work. Especially adapted to the higher voltage tube filters and for high voltage by-pass work when used in connection with the new tubes having plate voltage running as high as 400 volts. As all Potter Condensers, they are of full rated capacity, without variation, correctly designed and manufactured of the best materials.

| Code | Capacity | D. C. Test | Working Voltage | | Stock No. | List | Size |
|------|----------|------------|-----------------|-------|-----------|------------------------|------|
| | | | D. C. | No. | | | |
| 201 | .1 MFD | 500V | 400 | H4253 | \$0.75 | 5/8 x 1 1/8 x 3 1/4" | |
| 202 | .25 MFD | 500V | 400 | H4254 | .85 | 5/8 x 1 1/8 x 3 1/4" | |
| 203 | .5 MFD | 500V | 400 | H4255 | 1.00 | 5/8 x 1 1/8 x 3 1/4" | |
| 204 | 1. MFD | 500V | 400 | H4256 | 1.35 | 1 1/4 x 1 1/8 x 3 1/4" | |
| 205 | 2. MFD | 500V | 400 | H4257 | 2.00 | 3/4 x 2 1/4 x 3 1/4" | |
| 206 | 3. MFD | 500V | 400 | H4258 | 3.00 | 1 1/2 x 2 1/4 x 3 1/4" | |
| 207 | 4. MFD | 500V | 400 | H4259 | 4.00 | 1 1/2 x 3 1/4 x 3 1/4" | |
| 208 | 5. MFD | 500V | 400 | H4260 | 5.00 | 1 1/2 x 3 3/4 x 3 1/4" | |
| 209 | 6. MFD | 500V | 400 | H4261 | 5.75 | 2 1/4 x 3 3/4 x 3 1/4" | |
| 210 | 7. MFD | 500V | 400 | H4262 | 6.50 | 1 1/2 x 3 1/4 x 5 3/4" | |
| 211 | 8. MFD | 500V | 400 | H4263 | 7.25 | 1 1/2 x 3 1/4 x 6 1/4" | |

**Potter Condensers
Special Units
for the Raytheon
Circuit**



No. 350 Assembly



No. 385 Assembly

Potter Condensers are more efficient than any others. Extra heavy duty condensers especially designed for use in Raytheon and other circuits where a heavy duty condenser is desired. Made right and sealed permanently.

| | | |
|---------------------------------------|---------|------------------|
| No. 250—8-2-2-5 Mfd.—No. H4145..... | \$10.75 | 500 Volt Tested |
| No. 251—8-2-2-5-5 Mfd.—No. H4146..... | 11.00 | 500 Volt Tested |
| No. 350—8-2-2-5 Mfd.—No. H4147..... | 12.00 | 1000 Volt Tested |
| No. 351—8-2-2-5-5 Mfd.—No. H4148..... | 12.50 | 1000 Volt Tested |

In the above groups the 350 and 351 give full assurance of a great safety factor.

| | | |
|--------------------------------------|--------|------------------|
| No. 385—1 Mfd.—1 Mfd.—No. H4149..... | \$1.50 | 1000 Volt Tested |
|--------------------------------------|--------|------------------|

**SANGAMO
Accurate
Radio Parts**

Mica Condensers

Guaranteed to be accurate within 10 per cent of marked capacity. Molded in Bakelite. Can be frozen or boiled for hours without affecting their capacity. Size, 1 3/4 in. long, 1 3/8 in. wide and 1/2 in. thick.

| Cap. in MFD | MMF. | Stock No. | List |
|-------------|------|-----------|--------|
| 0.00004 | 40 | H4270 | \$0.40 |
| 0.00005 | 50 | H4170 | .40 |
| 0.00006 | 60 | H4271 | .40 |
| 0.00007 | 70 | H4272 | .40 |
| 0.00008 | 80 | H4273 | .40 |
| 0.0001 | 100 | H4171 | .40 |
| 0.00012 | 120 | H4274 | .40 |
| 0.00015 | 150 | H4172 | .40 |
| 0.000175 | 175 | H4275 | .40 |
| 0.0002 | 200 | H4276 | .40 |
| 0.00025 | 250 | H4277 | .40 |
| 0.0003 | 300 | H4278 | .40 |
| 0.00035 | 350 | H4278 | .40 |
| 0.0004 | 400 | H4279 | .40 |
| 0.0005 | 500 | H4174 | .40 |
| 0.0007 | 600 | H4280 | .40 |
| 0.0007 | 700 | H4281 | .40 |
| 0.0008 | 800 | H4282 | .40 |



| Cap in MFD | Stock No. | List |
|------------|------------|--------|
| 0.001 | H4175..... | \$0.50 |
| 0.0012 | H4283..... | .50 |
| 0.0015 | H4284..... | .50 |
| 0.00175 | H4177..... | .50 |
| 0.002 | H4178..... | .50 |
| 0.0025 | H4179..... | .50 |
| 0.003 | H4285..... | .60 |
| 0.0035 | H4180..... | .60 |
| 0.004 | H4181..... | .60 |
| 0.005 | H4182..... | .70 |
| 0.007 | H4286..... | .85 |
| 0.0075 | H4287..... | .90 |
| 0.008 | H4183..... | .95 |
| 0.01 | H4184..... | 1.00 |
| 0.01 | H4184..... | 1.15 |

With resistor clips, 10c extra.

By-Pass Condensers

Guaranteed for continuous operation at 250 volts A. C.—400 volts D. C. Tested at 400 volts A. C.—750 volts D. C.

| | |
|--------------------------|--------|
| .1 Mfd. No. H4288—List. | \$0.80 |
| .25 Mfd. No. H4289—List. | .80 |
| .5 Mfd. No. H4290—List. | .90 |
| 1. Mfd. No. H4291—List. | 1.25 |
| 2. Mfd. No. H4292—List. | 2.00 |
| 4. Mfd. No. H4293—List. | 3.00 |

Filter Condensers

Guaranteed for continuous operation at 500 volts A. C., 1,000 volts D. C. Tested at 800 volts A. C., 1,500 volts D. C.

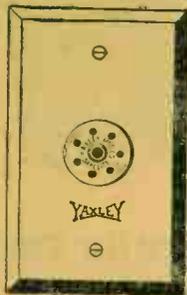
| | | |
|-------------------------|-----------|--------|
| .1 MFD Stock No. H4294 | List..... | \$1.25 |
| .25 MFD Stock No. H4295 | List..... | 1.40 |
| .5 MFD Stock No. H4296 | List..... | 1.60 |
| 1. MFD Stock No. H4297 | List..... | 1.95 |
| 2. MFD Stock No. H4298 | List..... | 2.50 |
| 4. MFD Stock No. H4299 | List..... | 4.00 |

Eliminator Groups

| | |
|--|---------|
| Group 1—Consisting of 12 MFD (8-2-2) By-Pass— No. H4265—List | \$ 9.50 |
| Group 2—Consisting of 14 MFD (8-2-2-1-1) By-Pass— No. H4266—List | 11.00 |
| Verion Group—(2 cans) One containing 2—1 MFD Filter. Other containing 1—4 MFD Filter, 1—4 MFD By-Pass, 1—2 MFD By-Pass, 4—1 MFD By-Pass. Total for group, 16—1.5 MFD. Stock No. H4267—List | 12.00 |

Radio Convenience Outlets

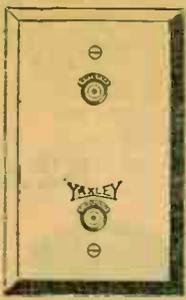
Neat finished plates to use on wall, baseboard or floor give your radio connections the same finished appearance as the house wiring. Many architects are using these in new buildings.



No. 137



No. 135



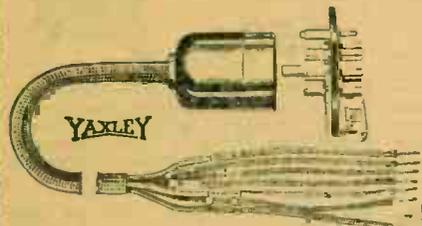
No. 136

For Battery Connections—Consists of receptacle and plate and connector plug with pin contacts. Fits any standard outlet box. No. 137—Radio Convenience Outlet with plug for battery connections. H2196—List\$2.50

For Loud Speaker and Phone Connections—With one set, reception can be enjoyed in any part of the building by plugging to one of these outlets. Complete with jack, with 8 screw terminals. No. 135—Radio Convenience Outlet. H2197—List\$1.00

For Aerial and Ground Connections—Makes these connections available to set by means of phone tips or Yaxley phone tip jacks or No. 14 solid wire. No. 136—Radio Convenience Outlet. H2198—List\$1.00

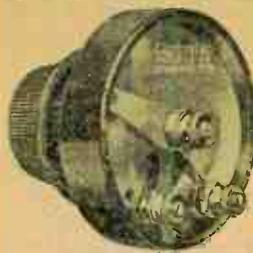
Cable Connector Plug



Makes hooking up of batteries safe and simple. Cannot be inserted incorrectly. Shorting is impossible. RMA standard color code. Cable also marked with Yaxley metal cable markers. Six extra markers with each plug. Cable 5 feet long. No. 660 Cable Connector Plug. H2220—List...\$3.50

Centralab Radiohms

Can be varied smoothly through their entire range. Give full resistance scale with one turn of knob. Non-inductive, noiseless adjustment and works as controls in the grid or plate circuit of radio frequency amplifiers. Single hole mounting. Base and knob of bakelite.



- No. 2M Radiohm, 0 to 2,000 ohms. H1143—List\$2.00
- No. 25M Radiohm, 0 to 25,000 ohms. H1144—List 2.00
- No. 51M Radiohm, 0 to 50,000 ohms. H1145—List 2.00
- No. 100M Radiohm, 0 to 100,000 ohms. H1146—List 2.00
- No. 200M Radiohm, 0 to 200,000 ohms. H1147—List 2.00
- No. 500M Radiohm, 0 to 500,000 ohms. H1148—List 2.00

Heavy Duty Radiohms

A new Centralab Variable High resistance built especially to control current of "B" battery eliminators or for radio work requiring unusual current capacity.

- No. 50M Heavy Duty Radiohms 5,000 to 50,000 ohms. H1151—List\$2.00
- No. 10M Heavy Duty Radiohms 0 to 10,000 ohms. H1152—List 2.00
- No. 2M Heavy Duty Radiohms, 0 to 2,000 ohms. H1153—List..... 2.00



Modulator and Potentiometers

Same in appearance as the Radiohm except has three terminals. Resistance is a smooth graphite strip. There is no wear and this construction is used on all Centralab Variable High Resistances. Base and knob of bakelite single hole mounting. Recommended by famous builders.



- No. 500M Modulator, 500,000 ohms maximum. H1140—List\$2.00
- No. 110 Potentiometer, 400 ohms maximum. H1141—List 1.75
- No. 111 Potentiometer, 2,000 ohms maximum. H1142—List 2.00

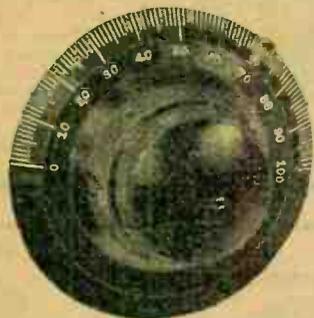
Aristocrat

Kurz-Kasch Aristocrat Dials are furnished with the famous Kurz-Kasch split bushing and separate knob for fastening to shaft. This design makes the attaching of the dial a quick and simple operation and assures a true running dial.

Aristocrat E-Z-Toon Vernier Dial

Made in one size—four-inch only—with a gear ratio of 50 to 1 that gives hair breadth tuning accuracy. Black finish with easy-reading white markings. Each dial packed in a separate carton.

- No. 775—Clockwise markings to 100—H1945—List...\$1.50
- No. 776—Counter-clockwise markings to 100—H1946—List 1.50
- No. 777—Clockwise markings to 200—H1947—List... 1.65
- No. 778—Counter-clockwise markings to 200—H1948—List 1.65



Kurz-Kasch Aristocrat Vernier Dial

The graceful lines of this model Aristocrat will add to the appearance of any set. The housing measures 4 inches by 4 1/2 inches. The smooth action vernier arrangement has a gear ratio of 14 to 1. Black finish with white readings.

- No. 590—Counter-clockwise markings to 200—H1949—List\$2.00
- No. 591—Clockwise markings to 200—H1950—List2.00

Radio Dials

Kurz-Kasch Aristocrat Dials are beautifully made of black Bakelite, with metal bright-finished pointers to harmonize. Each dial is packed in a separate carton ready to make a good appearance for your customer from the time he sees it on your counter.

Aristocrat E-Z-Toon Vernier Pointer

Designed for those radio sets that have the scale marked directly on the panel. Direct action vernier with a ratio of 50 to 1 gives an exceedingly fine adjustment to a plain condenser and eliminates all end play in the condenser. Fits any make or type of condenser. Easily attached. No cogs, gears, no back-lash or lost motion. Pointer—H1951—List...\$1.00
Pointer—H1952—List... 1.10



Standard Kurz-Kasch Aristocrat Radio Dials

Standard Aristocrat Dial—black finish with white markings. 4-inch dial with 2 1/2-inch knob

- No. 566—Counter-clockwise readings to 100—H1953—List\$0.85
- No. 567—Clockwise readings to 100—H1954—List\$0.85



Standard Aristocrat Dial—black finish with white markings. 3-inch dial with 2-inch knob.

- No. 528—Counter-clockwise readings to 100—H1955—List\$0.60
- No. 529—Clockwise readings to 100—H1956—List\$0.60

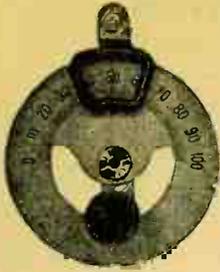


Black finish, white markings to 200, for use with 100 and other condensers with 300 degree range.

- No. 573—4-inch dial, 2 1/2-inch knob, counter-clockwise. H1957—List\$0.95
- No. 574—4-inch dial, 2 1/2-inch knob, clockwise H1958—List\$0.95

WE ARE INCORPORATED FOR \$500,000.00—THIS IS YOUR GUARANTEE OF SATISFACTION

MAR-CO BACK-PANEL MOUNTING ILLUMINATED CONTROL DIALS
Something New—Read Lighted Figures Through Panel Windows



A translucent dial is mounted in back of the panel with a lamp socket mounted directly in back of the scale. Large plain figures are read through a panel window framed in a neat moulded Bakelite frame.
Leading set manufacturers now use similar arrangements—but this is the first mechanism offered that is suitable for amateur and professional set builders. Variable condensers and similar instruments may be supported by the regulation mounting screw. Current for the lamp may be supplied from the filament circuit of the set. A separate switch controls the lamp circuit.

The window openings are easily cut out by the use of a special template and an ordinary hand drill. Each Mar-Co Illuminated Control unit consists of 1 Vernier Dial Mechanism, 1 special 6-volt Indicator Lamp, 1 4 1/2 Translucent Precision Scale, 1 Steel Drilling Template, with screws and nuts, 1 Bezel, with mounting screws, 1 Hair Line Indicator, 1 Bakelite Control Knob, 3 Adjusting Washers complete with directions for mounting. H1923 Reading 0 to 100—List.....\$3.50 H1923A Reading 100 to 0—List..... 3.50

MAR-CO BAKELITE VERNIER DIAL NO BACKLASH

A non-microphonic Bakelite dial with a unique feature of a place to fill in the call letters of broadcasting stations at the proper dial readings. Mar-Co Dials have absolutely no backlash. They have vernier control—yet require only one hole to mount.
H1763—4-in. size. Nickel finish. List \$2.50
H1763G—4-in. size. Gold finish. List 2.75
Also for Remler and all 360-degree rotation condensers.



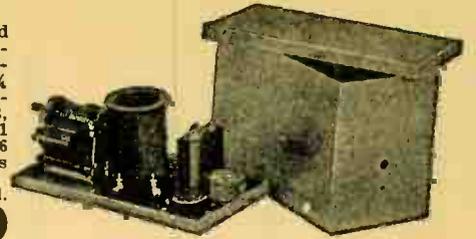
MAR-CO RHEOSTAT DIALS

Matches the regular Mar-Co Dials in appearance and the No-Backlash features, but in the small size for Rheostat Control. Make your sets uniform by using Mar-Co Dials throughout.
H1924—Mar-Co Rheostat Dial—List.....75c

SILVER-MARSHALL PRODUCTS

STAGE FIELD

An aluminum shield that can be used to advantage under some conditions. Size 7 1/2 x 5 x 3 3/4 inches. Made to fit condensers Nos. 316A, 316B, 317, 515 coil socket, 511 tube socket, 275 and 276 choke coil and by-pass condenser.
Type 631 Stage Shield.
No. H290— **\$2.00**
List



Universal Vernier Dial

This dial is composed of black bakelite dial housing enclosing a reversible celluloid finished indicator plate marked off to half-degree divisions, controlled by a knurled tapered knob. The reduction ratio is 14.5 to 1 and the dial has absolutely no backlash. Logging space is provided in which call letters may be written.



801 Vernier Dial
H1793—List **\$2.50**

TUBE SOCKETS

Designed for UX tubes, made of moulded bakelite with the phosphor bronze springs. Single mounting screw.
Type 510 Sockets. No. H291— **50c**
List



TYPE 511 TUBE SOCKET— Similar in all respects to No. 510 except that the terminals are mounted upon a ring about the base. Carries two mounting screw holes. Will fit UX and UV bases.
Type 511 Socket. No. **50c**
H292—List

TYPE 515 SOCKET—Composed of a moulded bakelite ring, properly marked, carrying six self-cleaning contacts with terminal screws. It is designed to take all S-M plug-in coils.
Type 515 Socket. No. **\$1.00**
H297—List

AMERICAN DIALS and KNOBS

THE AMERICAN DIAL



This dial, of genuine highly polished Bakelite, is without doubt the best buy in dials that can be found today. It comes in the three and four-inch sizes for one-quarter inch shaft. Markings are very deep and scales can be easily read. This dial has proven a great favorite with set builders due to its efficiency, beauty and unusually low price. Graceful design and skillful workmanship combine to make it one of the finest values we have ever been

able to offer our customers.

- 4-inch American dial. No. H1779—List.....\$0.60
- 3-inch American dial. No. H1780—List..... .50
- 4-inch composition dial. No. H2032—List..... .40
- 3-inch composition dial. No. H2033—List..... .30

THE AMERICAN POINTER KNOB

These knobs are made in new and novel design and are a departure from the conventional dial. Made of highly polished genuine Bakelite material. They come complete with bushing and set screw. Gold can be furnished at slight additional cost.

- No. 702—1-piece pointer knob complete with set screw (2 1/4 in. circle). No. H1777—List30c
- No. 706—1-piece pointer knob, complete with set screw. (3 1/4 in. circle.) H1778—List45c

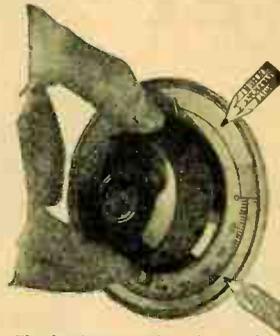
Genuine Bakelite Highly Polished



Plain Mahogany Knobs

- 2 1/2-inch. No. H2034—List, \$0.40
- 1 1/2-inch. No. H2035—List, .30

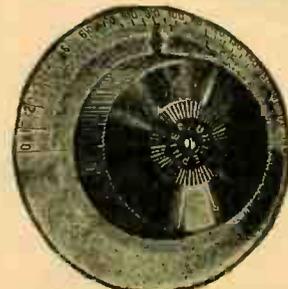
WALNART-DIALOG



The world's smoothest vernier control. Can be mounted flush against panel with any type of condenser. No drilling of panel or cutting off of shaft required. Can be attached by anyone in less than a minute, with only one screw to tighten. Guaranteed 100 per cent positive action. No gears, levers or cams that can be worn out. No back lash or wobble. Entirely new principle of construction. Genuine Bakelite knob, 2 3/4 in. diameter, with neatly etched erasable metal dial, 4 1/2 in. diameter. Unconditionally guaranteed in every way. Can be supplied either with clockwise, counter-clockwise or 360 degree graduations. Dialog—black knob, silver dial.

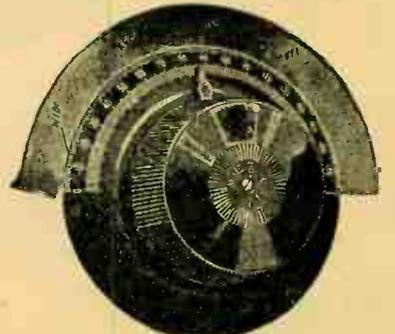
- Clockwise graduations, No. H1791C—List.....\$1.25
- Counter-clockwise graduations, No. H1791CC—List..... 1.25
- 360 degree graduations, No. H1791R—List..... 1.25

WALBERT S-L-F VERNIER DIAL



Will convert ordinary semi-circle plate condensers. Has a 12 to 1 ratio. Anti clock wise. New reduced price. No H238— **\$2.00**
List

NEW UNIVERNIER DIAL



Four-inch Vernier Dial, smooth positive adjustment, 12 to 1 ratio. Permanent finish, will not tarnish or scratch. Anti-clock wise. New reduced price. No. H239—List **\$1.50**

IF IT'S RADIO YOU WANT—WE HAVE IT IN STOCK

TRANSMITTING APPARATUS

Mueller Transmitting Tubes



These tubes made by Mueller of Hamburg, one of the largest and best known manufacturers of Roentgen Tubes for X-Rays.

Outstanding characteristics of the Mueller Tubes are:
1. Extreme low vacuum (hardness), with attendant efficiency.

2. Exceptionally rigid trussed internal construction with suspended plate—relations of elements cannot vary.

3. Special mesh-type grid allows over-loads without danger and facilitates oscillation on short-wave lengths.

4. Great ruggedness makes for long and efficient life. In the 500 watt tube, the filament is in two parts, so arranged that in case either half should blow, the tube will continue to operate.

These Tubes are Unexcelled for Technical Precision and Durability.

| Watts | Type | Fil Volts | Fil Amps. | Max. Pl. Volts | Pl. Cur. M. A. | Stock No. | List |
|-------|-------|-----------|-----------|----------------|----------------|-----------|---------|
| 8 | MSIV | 5.47 | 1.59 | 500 | 30.5 | H2923 | \$ 6.00 |
| 30 | MSIII | 7.40 | 4.25 | 1,200 | 100. | H2924 | 15.00 |
| 250 | MSII | 10.80 | 4.25 | 5,000 | 210. | H2925 | 95.00 |
| 500 | MSI | 16.05 | 3.00 | 5,000 | 400. | H2926 | 140.00 |

Tobe Transmitting Condensers



Each transmitting condenser is tested and labeled with date of test and initials of tester. Capacities are guaranteed within 5% of ratings.

1,000 - volt condensers are fitted with heavy brass binding posts. 2,000 - volt condensers have heavy brass binding posts with petticoat insulators. Each condenser is cased in a heavy silvered finish metal case.

The ideal condenser for transmitting plate-supply use.

| Cap. Mfds. | Type No. | Stock No. | Price 1,000 Volts | Type No. | Stock No. | Price 2,000 Volts |
|------------|----------|-----------|-------------------|----------|-----------|-------------------|
| .1 | 1001 | H3075 | \$1.50 | 2001 | H3080 | \$2.50 |
| .25 | 1002 | H3076 | 2.00 | | | |
| .5 | 1005 | H3077 | 3.00 | 2005 | H3081 | 4.00 |
| 1.0 | 1010 | H3078 | 4.00 | 2010 | H3082 | 4.75 |
| 2.0 | 1020 | H3079 | 6.00 | 2020 | H3083 | 8.00 |

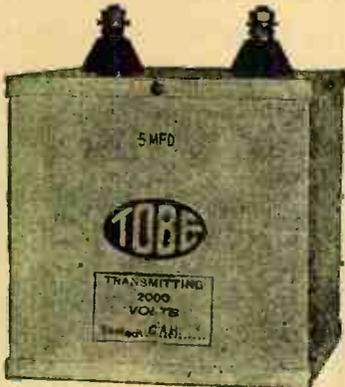
Special 5-MFD. Condenser

This is a new model 2,000-volt high tension transmitting condenser, equipped with special insulated high-tension binding posts of heavy brass with nuts and washers and cased in a heavy silvered metal case.

Dimensions—5 3/8" high by 5 1/2" wide by 5 7/8" deep.

The finest high-tension 5 mfd. condenser ever offered for transmitting and other high voltage purposes.

Type 2050. No. H3084—List \$17



Signal Wireless Keys



Made very sturdy. Coin silver contact. Polished and lacquered brass parts.

R-48—1/4 K. W. Key.

No. H1370—List..\$2.80

Standard wireless keys, brass base.

R-62—1/2 in. contacts.

No. H3111—List..\$3.50

R-63—3/4 in. contacts.

No. H3112—List..\$3.70

R-64—3/8 in. contacts.

No. H3113—List.. 3.90

Wireless Practice Set

No. R668 Signal wireless practice set. Equipped with key and high frequency buzzer, mounted on very neat walnut board. This is ideal for one desiring to learn the code. Works just like the regular standard key. For convenience, the code is printed on a little brass plate fastened to base. Wireless Practice Set No. H1369—List.....\$3.40

High Frequency Buzzer

This is the same type buzzer as used in the R-63 wireless practice set. It has an added advantage of being adjustable. Has a standard resistance of 2 ohms. Black crystallized lacquer finish. Type R-60 high frequency buzzer, No. H3114—List.....\$1.25

Note—These buzzers can be furnished in special resistances on quantity orders. Write us your specifications and we will gladly furnish quotations.



Federal Microphones

The finest inexpensive hand microphones for amateur transmitting. Resistance about 40 ohms. No. 260W, hand type—No. H1366—List.....\$7.00
No. 261W—Desk type—H1367—List..... 6.50
No. 262W—Panel mounting—H1368—List..... 5.25



Modulation Transformers

No. 234 is designed particularly for grid modulation for use in connection with Federal Microphones to properly modulate the voice frequencies and produce clear speech. It should not be used for constant current modulation, however. This transformer has proven itself very efficient in voice transmission. It is the shell core type, 9-1 ratio, and provided with insulating panel on which are mounted convenient nickel binding posts and lugs. No. H1365—List.....\$7.00

Thordarson C. W. Transformers



Filament Shell Type

Both primary and secondary winding assembled on the center core. Secondary is made of heavy copper ribbon and wound in pancake form. Tap brought out at center point.

Rated for continuous duty. Standard primary, 110 volts, 60 cycles.



| Catalog No. | Watts | Secondary Volts | Stock No. | Price Unmounted | Stock No. | Price Mounted |
|-------------|-------|-----------------|-----------|-----------------|-----------|---------------|
| T120 | 80 | 8 1/2 | H1350 | \$ 6.00 | H1350M | \$ 7.00 |
| T121 | 150 | 12 | H1351 | 8.00 | H1351M | 10.00 |
| T122 | 300 | 12 | H1352 | 12.50 | H1352M | 15.00 |

Plate Supply—We encourage the use of shell type transformers for high voltage plate supply transformers because of their high efficiency and good regulation.

Two secondary coils on every transformer. Standard primary 110 volts, 60 cycles.

| Catalog No. | Cap. Watts | Secondary Each Side of Neutral | Stock No. | Price Unmounted | Stock No. | Price Mounted |
|-------------|------------|--------------------------------|-----------|-----------------|-----------|---------------|
| T125 | 100 | 350 and 550 | H1353 | \$11.00 | H1353M | \$13.00 |
| T126 | 450 | 1030 and 1500 | H1354 | 16.00 | H1354M | 18.00 |
| T127 | 900 | 1090 and 1500 | H1355 | 27.00 | H1355M | 30.00 |

Acme Apparatus

Before commercial broadcasting, Acme was specializing in transmitting apparatus for amateurs. Thus Acme parts have an unusually high standard.

C. W. TRANSFORMERS

| Power Trans | Fully Mounted Stock No. | 60 Cycle | 40-25 Cycle | Unmounted Stock No. | 60 Cycle | 40-25 Cycle |
|--------------|-------------------------|----------|-------------|---------------------|----------|-------------|
| 600 watt | H3085 | \$33.00 | \$50.00 | H3085M | \$25.00 | \$44.00 |
| 300 watt | H3086 | 25.00 | 35.00 | H3086M | 20.00 | 30.00 |
| 200 watt | H3087 | 20.00 | 32.00 | H3087M | 16.00 | 25.00 |
| 75 watt | H3088 | 15.00 | 25.00 | H3088M | 12.00 | 20.00 |
| Plate Trans. | | | | | | |
| 500 watt | H3089 | 25.00 | 40.00 | H3089M | 20.00 | 35.00 |
| 250 watt | H3090 | 20.00 | 32.00 | H3090M | 16.00 | 27.00 |

C. W. ACCESSORY APPARATUS

| | |
|---|--------|
| L-1 C. W. Inductance—H3091—List..... | \$8.00 |
| G-1 C. W. Grid Coil—H3092—List..... | 2.00 |
| 2 M. F. 750 Volt Condenser—H3093—List..... | 2.50 |
| 2 M. F. 1500 Volt Condenser—H3094—List..... | 6.50 |
| .0001 m. f. Variable Air Condenser with Vernier—H3095—List..... | 5.50 |
| A-3 Modulation Transformer—H3099—List..... | 5.00 |

FILAMENT TRANSFORMERS

| Power | Mounted | 60 Cycle | 25 Cycle | Unmounted | 60 Cycle | 25 Cycle |
|----------|---------|----------|----------|-----------|----------|----------|
| 300 watt | H3096M | \$20.00 | \$28.00 | H3096 | \$16.00 | \$24.00 |
| 150 watt | H3097M | 16.00 | 23.00 | H3097 | 13.00 | 20.00 |
| 75 watt | H3098M | 12.00 | 16.00 | H3098 | 9.00 | 13.00 |

CHOKE COILS—1 1/2 Henries

| | |
|---------------------------------|--------|
| 150 M.A. Single Coil—H3101..... | \$4.00 |
| 150 M.A. Double Coil—H3102..... | 6.00 |
| 500 M.A. Single Coil—H3103..... | 6.00 |
| 500 M.A. Double Coil—H3104..... | 8.00 |

6 Henries

| | |
|---------------------|---------|
| 150 M.A.—H3105..... | \$10.00 |
| 300 M.A.—H3106..... | 14.00 |
| 600 M.A.—H3107..... | 18.00 |

30 Henries

| | |
|---------------------|---------|
| 150 M.A.—H3108..... | \$18.00 |
| 300 M.A.—H3109..... | 25.00 |
| 600 M.A.—H3110..... | 33.00 |

Prices on transformers are for 110 volts, primary source and given frequencies; for 220 volts \$1.00 more in each case; for other specifications net prices on application.



Cash Must Accompany All Orders for Transmitting Devices. Orders Not Subject to Cancellation.

MONEY IN ADVANCE ON ALL TRANSMITTING APPARATUS

Tobe Loop

Wound with finest quality of real German Litz wire, not the wire commonly known as "Litz." Unique system of taps allows use of 3, 4, 7 or the full 14 turns, with remainder entirely disconnected. This system adapts for center tap super-heterodyne and makes it possible to cover 100 to 750 meters, using .0005 variable condenser. Finished in hand rubbed mahogany and highly nicked fittings. Graduated disc gives points of compass. Instantly folded No. H3805. List—

\$25.00

A Real Quality Loop

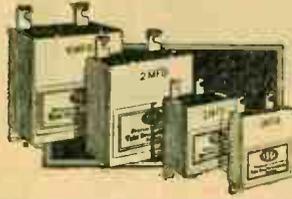
Tobe Deutschmann Condensers

| Type | Capacity | Mfd. | Stock No. | List |
|------|----------|------|-----------|-------|
| 705 | .1 | Mfd. | H4192 | \$.70 |
| 706 | .25 | Mfd. | H4187 | .75 |
| 707 | .5 | Mfd. | H4188 | .90 |
| 708 | 1. | Mfd. | H4191 | 1.25 |
| 709 | 2. | Mfd. | H4189 | 1.75 |
| 710 | 3. | Mfd. | H4204 | 2.75 |
| 711 | 4. | Mfd. | H4190 | 3.75 |
| 712 | 5. | Mfd. | H4205 | 4.50 |

These Condensers Are the Highest Quality

Guaranteed to operate at D. C. voltage up to 700, without breakdown overheating; resistance of not less than 150 megohms.

Variation from rated capacity not over 5 per cent, and so perfectly and rigidly constructed as not to vary rated capacity through all variations in temperature, and over a long life. Compact and of beautiful appearance, in matt-finish aluminum cases.



BODINE-De Luxe Loop Antenna

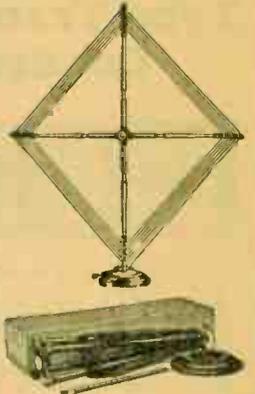
This new De Luxe Loop is designed to meet the great demand for an efficient, attractive loop that requires small operating space. Because of its construction, this loop will give much greater selectivity and eliminate much interference due to static and nearby power lines. A special low capacity 3-contact jack is mounted on bakelite in the base permitting the loop to be rotated continuously. Jack can be removed from base and mounted in the cover so that no exposed connection wires are needed. The use of five stranded copper wire for the winding and bakelite insulation throughout make this loop unusual efficient. The compact design requires small space for operation. Easy to install in radio cabinets and other out of the way places. Turning radius 6 inches, height 26 inches. Bodine De Luxe Loop. \$12.00 No. H3795—List

Folding Antenna

This loop follows the latest practice in coil winding and reduces undesirable distributed capacity to a minimum. Noted for its ability to pick up distant signals. Has a calibrated satin-silver dial marked off in degrees for logging. An insulated handle allows turning without affect from body capacity. 2 feet square when erected. Folds into box. 3 1/2 x 6 x 18 inches. Model B12X. For all loop circuits, including reflex, radio frequency and super-Het. Center tap for use when desired. \$8.50 No. H3798—List

Model B12TS—Tapped Loop. Has five point switch suitable for Super-Het, when it is desired to vary amount of feed back into loop. A universal loop ideal for experimental work. \$10.00 No. H3799—List

Model B16TS—The only loop which exactly fits the Bodine Grebe Synchrophase. No. 3796—List



Signal Master Loop

Here is an excellent loop designed to give the utmost in tuning efficiency. It has unusual selectivity and will often increase the tuning distance of a set. Suitable for all Super-Hetrodynes and other types of sets requiring a loop.

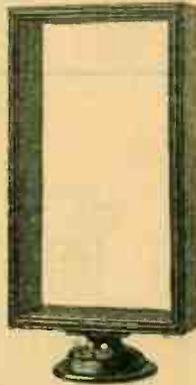
The wires are wound on bakelite strips and all wires are enclosed in a walnut frame with antique finish.

Wires are attached to a jack connection in base, no wires to get tangled or twisted.

Has three taps for sets requiring the third tap.

It is a very beautiful loop and will look well on any set. Height 24 inches.

Type 149 Signal Loop. H3816—List. \$8.50



Marion Folding Loops

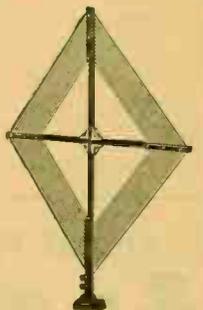
The Ingenious Masterpiece

The Marion Loops are without a doubt the most efficient loop antenna on the market. This is proven by the fact that they are specified by leading manufacturers.

Constructed of heavy, durable parts, these loops may be opened hundreds of times without detrimental effects. The ingenious center piece holds a loop rigid and absolutely vertical when open. Pressure of a finger on the catch located on this center piece causes the loop to fold on itself, either one crossarm at a time or all simultaneously. To open, merely grasp the loop at the center piece and swing the crossarms to normal position. The catches act automatically and absolutely prevent any jar or shock accidentally closing it. To use, simply connect to set and slowly rotate until the signals are loudest. The loop will then be pointing in the best direction for that particular station.

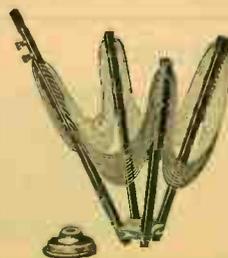
Among the many special features are: Richly finished support arms, cast aluminum center piece. Special standard phosphor bronze cable giving great signal strength and wave length of 150 to 690 when shunted with a 23-plate condenser. Marion Folding Loops. H3811—List

Marion Folding Loops with center top for Super-heterodyne circuits. H3812—List

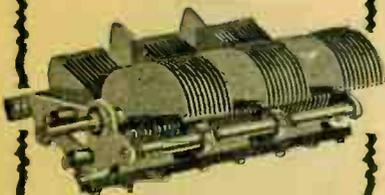


MARION COMPASS LOOP

The fundamental construction is the same as the folding loop with the addition of a center top for super-heterodynes, a highly finished molded hose with a jack and plug connection and a graduated knob and dial, together with a compass is also provided, enabling the user to instantly secure a station already logged and with a minimum amount of tuning. Marion Compass Loop. H3813—List



Triple Condenser for Infra-Dyne



A special triple condenser designed by E. M. Sargent for use in the Infra-Dyne circuit. Capacity .00035.

No. H4356—List

\$9.50

BRACHSTAT



Automatic filament control. When ordering be sure to specify code.

W.D. 11 and 12, Code A, 1 1/2 volt battery.
201A, Code B, 6-volt battery.
199, Code C, 4 1/2 volt battery.
199, Code D, 6 volt battery.

CX120 or UV120, 3-v. Code 2-C.
CX112 or UX112, 5-v. Code 2-3.
CX310 or UX210, 6-v. Code 4-B.
CX310 or UX210 7.5-v. Code 5-B.

With mounting. List \$1.00. H1120

Without mounting. H1121—List 75c.

THREE HOUR SERVICE ON ALL ORDERS

Ultra Antenna

Operates on any loop type set and is unrivaled for super sets. Constructed of black Pyralin. Stagger wound coil. Equipped with magnetic compass mounted directly on revolving frame as an assistance for logging stations. This loop was sold by hundreds of our dealers last year and all report that it gave unusual satisfaction. Especially designed for multi-tube super sets.

Ultra Loop for .0005 condenser, 3 tap. No. H3810—List **\$12.50**

Ultra Loop for .00075 condenser for Radiolas. No. H3809—List **\$12.50**



For Aerials The Redi-Mast

Makes a Hard Job Easy

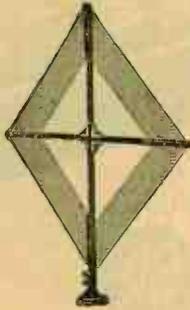
Radio dealers can now turn their hardest job into profit. Can be erected instantly on any part of any kind of roof by anyone. Nothing more to buy. Will not cause a leaky roof. Gives slightly with the wind, preventing aerial breakage.



The patented tripod guy rods allow easy adjustment for any location on hip, flat or gable roofs. One Redi-Mast unit is usually used—the other end of aerial running away to garage, tree or other support. Redi-Mast complete with outrigger. **\$4.00**
H766—List

American Folding Loop

One of the most efficient antennas on the market. Constructed of heavy durable parts and may be opened and closed hundreds of times simply and easily without detrimental effect. Not hard to install or use. Rotates slowly and smoothly. High efficient and selective. Wave length range 150 to 690 meters. For use with .0005 condensers, 3 tap. American Folding Loop Antenna. No. H2028—List



\$5.00

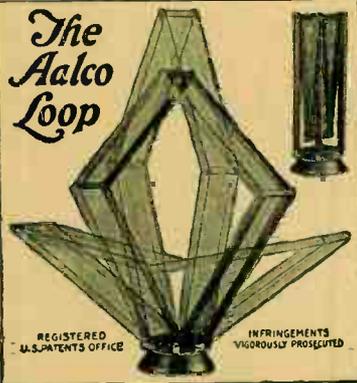
Reel Aerial

A Portable Aerial—Winds on a reel like a tape—Reel out the aerial—reel in when through.



Permits quick and easy temporary or permanent installation of a highly efficient antenna of any length—anywhere—a room, hall or outside. Has 100 feet of 1/4-in. wide flat copper wire. Nicked metal case with take-up reel enables tape to be easily wound. Make a difficult aerial job easy by using Reel Aerial. Helps in selectivity and experimental work, by lengthening or shortening instantly. Reel Aerial, No. H4252—List.... **\$5.00**

THE FAMOUS AALCO LOOP



Aalco Loops are made in two distinct types.

Wave length range from 180 to 570 meters. Height when normal, 30 inches. Constructed of genuine walnut, and with all metal parts highly nicked brass. Built of 64-strand low resistance wire and guaranteed for life.

Aalco Loop Type No. 5—For Super-Heterodyne and other circuits using .0005 variable condensers. H3836—List.... \$12.50

Aalco Loop Type No. 35—Used with Neutrodyne, Tuned Radio Frequency, Browning-Drake and other receivers employing .00035 variable condensers. Diagrams explain method of connecting. H3835—List \$12.50

The Areo Loop Antenna

This is not "just another loop," but a rare innovation which is certain to please the critical radio fan. The essential feature is the patented "loop within a loop," which not only acts as a "static strainer," but also as a signal booster. Bakelite insulation used throughout. Finish is mahogany. When used with outside antenna, this loop acts as an added inductance, makes set more selective and also strengthens signals. Style 1-A for 3-tap Supers, Neutrodynes, Reflex, Regenerative and Radio Frequency receivers. Stock No. H3830. Style 2-B for Radiola Supers, Stock No. H3831 —List Price, either model..... **\$12.50**



AMERICAN UNDERGROUND ANTENNA GETS RID OF INTERFERENCE

A STARTLING NEW DEVELOPMENT

The professional radio man always looks with suspicion upon any new device which is claimed to eliminate static or interference. So many have been failures that a reasonable doubt is justified. However, our engineers have perfected the underground antenna to a point where we can recommend it without qualification to our customers. Every member of our technical staff has given it a test under normal operating conditions—and the unanimous verdict has been: "It eliminates interference and lessens static to the point where it is scarcely to be heard and is absolutely not a serious factor."



The Principle of the American Underground Antenna

The American underground antenna should be buried at least two feet and preferably three or four feet in the ground. It consists of a special copper cable, insulated from and protected by a sheath of metal which also serves another purpose. The metal sheathing is a conductor and acts with the copper cable to form a condenser. The effect is to bring in broadcast programs wonderfully—and to get rid of interference entirely. Sputtering arc lights, power line condensers with a leak, interference from street cars or other big electric motors cease to trouble. As for static, even the approach of a thunderstorm is inaudible. The underground antenna requires a little extra amplification to take care of a slightly lessened strength of received signal. However, much more amplification can be used because the absence of static "raises the signal level." The American underground antenna comes in 50, 75 and 100-foot lengths. We recommend the 100-foot length because more signal pickup and consequently a greater volume can be obtained by its use. Full directions with each one.

50 ft. H761—List..... \$ 6.00
75 ft. H762—List..... 9.00
100 ft. H763—List..... 12.00

Adjustable Ball & Socket AERIAL

They present an attractive and decorative appearance and permanently support an efficient outside aerial.

Model A, 1 inch pipe size. Base in 2 sections that fit on each side of apex of roof. Consists of spear head top, guy wire collar and full adjustable gable roof ball and socket.

No. H915—List..... **\$3.00**

Model B, same as A except has single base as shown in illustration.

H916—List..... **\$3.00**

Model C same as B, except has 1/2-inch pipe size. No. H917—List..... **\$1.00**

Model D same as A, except has 1/2-inch pipe size. No. H918—List..... **1.00**



OUTRIGGER

Is 1" pipe size to fit Model A and Model B Masts. When used as lead-in wire outrigger, use wooden extension long enough so that lead-in wire will clear. When used as Guy-wire Outrigger use 1/2 inch common Pipe.



No. H919—List..... **50c**

Guy-Wire Collar

Is set-screwed and can be positioned anywhere along the Mast. No.



H920 — 1-inch size. **25c**
List.....
No. H920 1/2 — 1/2-inch size. List..... **15c**

BRACH LIGHTNING ARRESTERS

STORM KING



High grade porcelain base. Vacuum gap. Can be used indoors or out. Approved by the National Board of Underwriters. H1503—List..... **\$1.00**

No. 223 Arrester

For outdoor use. Has vacuum cartridge equipped with overflow gaps, insuring capacity as well as sensitivity. Endorsed and listed by National Board of Fire Underwriters. H820—List..... **\$2.50**

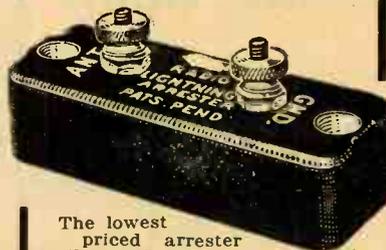


Storm Guard



Absolutely weather-proof. Approved by Underwriters after laboratory tests. Designed for installation outdoors. H921—List..... **\$1.50**

AMERICAN LIGHTNING ARRESTER



The lowest priced arrester on the market. Made



of good quality porcelain. Approved by the Underwriters. No. H1504—List..... **50c**

American Porcelain Insulator



A high grade insulator. Every set owner and builder needs several. Keep a good supply always on hand. American Porcelain Insulator. No. H2027—List..... **10c**



American Antenna Assembly



Complete aerial and ground equipment of high quality materials, consisting of:

- 100 ft. seven-strand No. 24 copper aerial wire.
- 50 ft. No. 14 rubber covered lead-in wire.
- 1 Approved lightning arrester.
- 1 Approved window type lead-in strip.
- 4 Nail it knobs.
- 2 Screw eyes.
- 2 Screws.
- 1 Copper ground clamp.
- 2 Porcelain insulators.

Complete assembly. No. H5225—List..... **\$3.50**

American Lo Loss MIDGET CONDENSER



This little vernier condenser may be used for neutralizing Neutrodyne sets, or in shunt with ordinary plain type condenser. It is a radical change from any existing vernier. It is a minimum low loss condenser that guarantees micrometric graduations not possible with geared, friction, or single plate vernier devices.

This little marvel is mechanically and electrically sound. Will operate perfectly for a lifetime—on any condenser or circuit. H4360—List..... **\$1.25**

CABLE

- No. 14—Rubber covered, 100-ft. rolls. H4240—List..... **\$2.00**
- No. 14—Rubber covered, 50-ft. rolls. H4241—List..... **\$1.00**
- No. 14—Tinned Copper hook-up, 35-ft. rolls. H4242—List..... **\$0.35**
- No. 14—Square tinned bus wire in 2-ft. lengths, 100 ft. 75c; 200 ft. H4243—List..... **\$2.00**
- No. 16—Annunciator wire, 1-lb. rolls. H4244—List..... **\$1.25**
- Green Lamp Cord, double, per 100 ft. H4245—List..... **\$4.50**
- No. 14—Cambric covered, square tinned hook-up wire (red or black), per ft. H4247—List..... **\$0.07**
- No. 18—Insulated ground wire, per 100 ft. H4248—List..... **\$1.25**
- No. 18—Insulated lead-in wire, per 100 ft. H4249—List..... **\$1.25**
- 16-strand Springflex hollow braided copper ribbon aerial, per 100 ft. H4251—List..... **\$2.50**

Choose Your Items With Care

We carry a complete line of all the well known brands of merchandise. In going through our stock I find some items of exceptional value and well worth the price asked. It would be impractical to send all these items on approval so to call them to your attention I have put my personal seal in the description and they will guide you to all the extra value items.

Harry Schwartzberg

My Personal Seal Approval



Wherever You See It You See **Extra Value**

DO NOT RETURN ANY MERCHANDISE KEPT IN YOUR POSSESSION OVER 5 DAYS WITHOUT PERMISSION

We believe in fair play. We never ship any goods to a customer except on a bonafide order. And in return, it is only fair that a customer should not return goods to us without first securing permission. Whenever the mistake is ours we are glad to rectify it, but in cases where the transportation company is at fault a claim should be filed with them.

We use all possible care in our inspecting, packing and shipping departments to assure safe delivery, and always try to handle claims the way the customer would handle them if the case were reversed.

AMERICAN AUTO & RADIO MFG. CO.,
Kansas City, Mo.

WHOLESALE ONLY IS OUR POLICY—HELP US TO MAINTAIN IT

Benjamin Tuned R. F. Transformers

Low resistance, low distributed capacity and greater tuning range than any other transformer, are outstanding characteristics of this one.

It is not limited to Tuned Radio Frequency Circuits, but adaptable for use in many other ways. When used as a wave trap it eliminates troublesome nearby stations. For use with .00035 MFD. condenser.

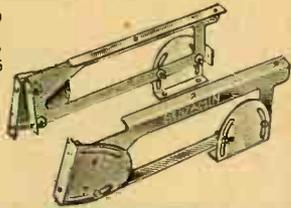
2 1/4 inches Diameter.

No. 9010—Set of 3. Stock No. H1371—List\$5.75

No. 9011—Single. Stock No. H1372—List 2.10
3 inches Diameter.
No. 8620—Set of 3. No. H1373—List...\$6.00
No. 8621—Single. No. H1374..... 2.25

Adjustable Shelf Supporting Bracket

A new bracket with adjustable pivoting ends. Adaptable to any sub-panel. Finished in dull nickel. Mounting screws furnished with panel. No. 9029—Pair of brackets. Stock No. H411—List\$1.25



KURZ-KASCH ARISTOCRAT GROUP CONTROL

Groups two or more tuning units together, which are operated by a single Master Dial, and at the same time provides a vernier adjustment of each of the units connected in



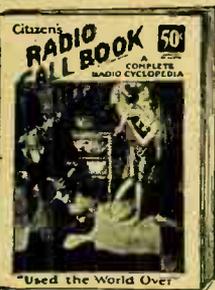
together in the group. Simple to install. No holes to be drilled in the panel except where condensers have a single hole mounting.

Aristocrat E-Z-Toon Group Control Kit, containing complete parts (except condensers).

H1787—List...\$7.50



CITIZENS RADIO CALL BOOK



Contains call letters and much information about radio broadcasting stations—a roctogravure section showing leading announcers and entertainers, maps, hook-ups and circuits with complete instructions for building

numerous sets and other features necessary to fully appreciate DX reception. H2470—List...50c

Replacement Horns

for Loud Speakers



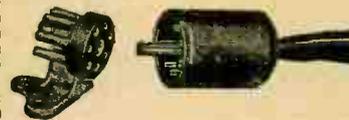
Gooseneck shape horns made especially for replacement purposes by a manufacturer who makes horns for many of the leading loud speaker manufacturers. Fits Trimm Concert, Baldwin, Thorola, Utah and a number of other loud speakers. Black finish. H2788—List\$10.00

Jones MULTI-PLUG
THE STANDARD OF CONNECTOR

Solder set wires at back of socket. Binding posts not necessary. No. BM socket only. H3494—List\$1.30
Plug and 8 foot cable only. H3495—List 3.20
No. BM Multi-plug complete. H3493—List 4.50

Use on any set equipped with binding posts. No soldering necessary. Connect the leads on sockets to the seven binding posts. No. BP socket only with 18-in. leads. H3490—List\$1.80

Plug and 8-foot cable only. H3499—List..... 3.20
No. BP Multi-plug, complete. H3492—List..... 5.00



No. PM same as BM but without mounting bracket on socket. Socket only. H3296—List..... \$.80
Plug and 8-foot cable only. H3297—List..... 3.20
PM Multi-Plug, complete. H3491—List..... 4.00



Lenk Automatic Blow Torch

This new, nationally advertised, torch is specially designed for radio work and uses alcohol. Will burn for hours on one filling. Here are some of its many advantages: Solid base improves stance and makes it leak proof, screw top for easy filling, copper heat conductor generates quickly and gives hotter flame. Size 5 1/2 x 2 1/4 x 1 ft. Fully guaranteed. Type 108 Automatic Blow Torch No. H3666—List\$1.50

AMERICAN BEAUTY SOLDERING IRON

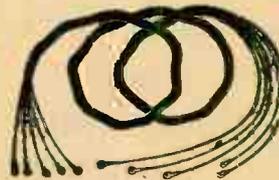


A fast heating iron that stays hot. Fully guaranteed for two years. Thousands of these have been sold by our dealers. Note low price. Extra low price to dealers.

American Beauty Soldering Iron, complete with cord. No. H3610—List\$1.50



Battery Cables



An extremely popular item this year. Makes a neat installation. With battery clips attached. H792—Price 50c. Without battery clips, H796—List40c

AMERICAN HYDROMETER



Tests all types of wet batteries, "A", "B" and automobile. A handy and necessary item. The most accurate way to test batteries. Every battery owner should have one. For best reception keep your batteries up. Know they are up by systematic testing. American Hydrometer. No. H2036—List 70c



AMERICAN BEAUTY

Quick Change Plug



Here is a good article, with a good value and a good price. It is a sensational seller and a splendid performer. Practically every set owner or builder needs one or more. They will move faster off your shelves than any similar item you ever stocked. Phone tips extra easy to insert and remove. Order a good supply at once. Quick change plug. No. H131—List50c



CENTRALAB MODULATOR PLUG

THE NEW TONE AND VOLUME CONTROL

Used in place of the regular plug and gives any degree of tone volume from a whisper to maximum by turning the small dial on the plug. Static interference is reduced and programs dial come in clear and true. Spring terminals in the plug base and hold the speaker tips firmly when inserted. Base and knob are of bakelite.

Bakelite base and knob.

Reduces Static.

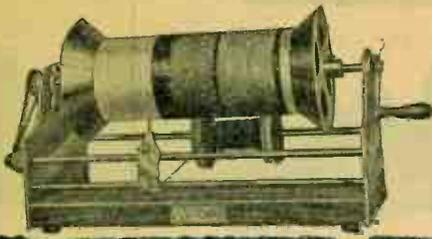


H894—List\$2.50

USE THE INDEX FREQUENTLY—IT WILL HELP YOU

Wizard Wire Winder

Just the thing for the radio experimenter or for your own shop use. Winds any size coil from 3/8 inch to 4 1/2 inch diameter and up to 10 1/2 inches long. Spaces perfectly. Winds any style of coil, from the old-fashioned variometer to the new low-



loss types and hexagonal and toroid coils. Nickel plated throughout and strongly built. You can't afford to be without this in your shop. **\$7.50**

H3594—List ..

MAGNET WIRE

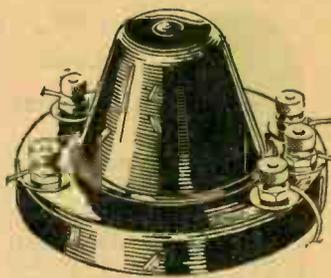
| All Kinds | | | | In Spools | |
|---------------|--------------|-----------|-------|-----------|--------------|
| Double Cotton | Quarter Lbs. | Half Lbs. | Lbs. | Lbs. | Lbs. |
| No. 14 | H4749 | \$0.43 | H4757 | \$0.75 | H4765 \$1.37 |
| No. 18 | H4750 | .46 | H4758 | .86 | H4766 1.46 |
| No. 20 | H4751 | .51 | H4759 | .95 | H4767 1.62 |
| No. 22 | H4752 | .57 | H4760 | 1.07 | H4768 1.86 |
| No. 24 | H4753 | .67 | H4761 | 1.27 | H4769 2.22 |
| No. 26 | H4754 | .81 | H4762 | 1.52 | H4770 2.70 |
| No. 28 | H4755 | .96 | H4763 | 1.86 | H4771 3.16 |
| No. 30 | H4756 | 1.15 | H4764 | 2.20 | H4772 3.76 |
| Double Silk | | | | | |
| Covered Green | Quarter Lbs. | Half Lbs. | Lbs. | Lbs. | Lbs. |
| No. 18 | H4798 | \$0.76 | H4806 | \$1.45 | H4814 \$2.62 |
| No. 20 | H4799 | .87 | H4807 | 1.72 | H4815 3.22 |
| No. 22 | H4800 | 1.01 | H4808 | 1.96 | H4816 3.46 |
| No. 24 | H4801 | 1.21 | H4809 | 2.36 | H4817 4.22 |
| No. 26 | H4802 | 1.50 | H4810 | 2.90 | H4818 5.36 |
| No. 28 | H4803 | 1.87 | H4811 | 3.62 | H4819 6.50 |
| No. 30 | H4804 | 2.42 | H4812 | 4.72 | H4820 8.98 |

AMERICAN SUPER-CABINET

This Super-Cabinet in Solid Walnut of beautiful finish is ideal for the installation of many of the various circuits now being built, especially for dry cell operated sets, as all dry cells and "B" batteries can be placed inside of cabinet at either end. It takes a 7x20 panel and is 10 inches deep, compartments being 6 1/2 x 10. Full piano hinge, inlaid panels and top, with two-tone inlay effect. Cabinet 36 in. long. H3740—List.. **\$20.00**



The Reliable Automatic Power Control Switch



This device makes the "A" battery switch on the receiving set automatically turn on and off either or both trickle charger and B eliminator as they are required.

Controls both Trickle Charger and B Eliminator.

Controls Trickle Charger only.

Controls B Eliminator only.

Every radio owner will instantly recognize the necessity of this new device. You can sell one every time you sell a Trickle Charger or B Eliminator. H2187 Reliable Automatic Power Control Switch No. 13—List..... **\$2.00**
No. 14 for UX199 Tubes. H2187A—List.....\$2.50

Handsome Sloping-Front Cabinet



Cabinet

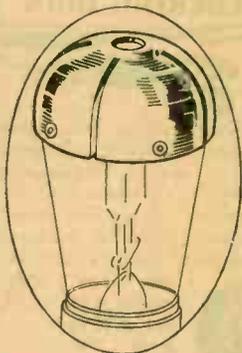
For the Bremer-Tully Counterphase

Beautifully finished cabinet which will house your Bremer-Tully Counterphase receiver. Sloping front style with compartment in each end large enough to hold a heavy duty "B" battery. Will take a panel 24 inches long and 7 inches high. Mahogany finish. H3754—List..... **\$25.00**

Eliminate Those Painful Tube Howls

With A

NO HOWL TUBE CAP



Acts as a damper or muffler, stopping all vibration of tubes. Eliminate those painful screechings and bellows that spoil your program. You'll enjoy radio as never before.

Put One On Every Microphonic Tube

The weight of the No-Howl will quiet them instantly—every demonstration will bring you a sale. The mechanical vibrations which cause microphonic noises will not shake a tube equipped with a No-Howl. H1680—List.....

50
Cents

TESTRIGHT BATTERY HYDROMETERS

Three sizes, all excellent values



Small size
H704— **50c**
List.....

Medium size
H705— **75c**
List.....

Large size
H706— **\$1.00**
List.....

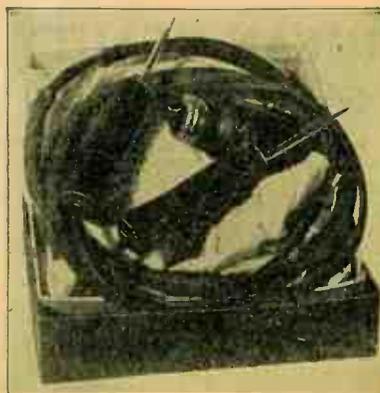
Every owner of a radio set needs one of these.

AMERICAN BATTERY CLIPS



Always a good seller for the Dealer. Keep a supply on hand.
Lead coated for "A" battery. H708—List..... **30c**
Copper test clip. H709— **20c**
List.....
Nickel spring clip. H710—List..... **10c**
Eureka test clip. H711— **10c**
List.....

The New Universal TROUBLE SHOOTER



With it you can locate grounds, opens, shorts, test circuits. Has special socket with separable plug. Fits into any standard lamp socket or receptacle. Operates with any standard Mazda or Incandescent lamp on A. C. or D. C. Two 5-ft. leads with Universal test handles. Invaluable to the radio and electrical service and repair man. **\$5.00**
H5209 — List....

CABINETS FOR ALL PURPOSES WILL BE FOUND ON PAGE 59

FORMICA RADIO PANELS



For popular kits: Verichromed gold or silver. All black polished paneling. Some are drilled to laboratory specifications:

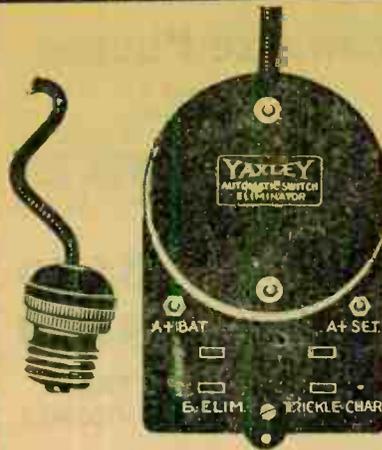
Aerodyne Five Tube
7x28x 1/8". Gold. H2016—
List\$6.40

DRILLED

Bremer-Tully Counternphase
7x24x 1/8". Gold. H2017—
List 5.68
Browning-Drake National
7x24x 1/8". Gold. H2018—
List 5.68
St. James 8 Tube 8x24x 1/8"
Gold. H2019—List..... 6.80
Karas Equamatic 7x28x 1/8"
Gold. H2020—List..... 6.80
Karas Equamatic sub panel
6x27x 1/8". H2021—List.... 4.64

NOT DRILLED
Infradyne 7x30x 1/8". Gold.
H2010—List\$7.00
General Radio 4 Tube Uni-
versal 7x18x 1/8". Silver.
H2011—List 4.32
LC 26 Cockaday 8x22x 1/8"
Gold. H2012—List..... 6.20
Victrol Super-Hetero-
dyne 7x24x 1/8". Gold
H2013—List 5.46
Madison Moore Super-Het-
erodyne 7x30x 1/8". Gold.
H2014—List 7.00
Camfield Duoforner V
7x18x 1/8". Gold. H2015—
List 4.80

Yaxley Relay Switch



For the set using a trickle charger and B eliminator, or either. The Relay automatically cuts out the trickle charger, cutting in the A battery and B eliminator when the switch of the set is turned on. When the set is turned off, the relay automatically cuts out the B eliminator and A battery, cutting in the trickle charger again. No. 444 Relay Switch, complete with cord and separable plug as illustrated. H2194—List..... **\$5**

GOODRICH SILVERTOWN

HARD RUBBER PANELS



All these popular models carried in stock for immediate delivery.

Highest quality. Nationally known and standard everywhere. Idea for the finest grade of radio receivers. Made in 3/16 inch thickness only, in the following sizes:

| | | | | | |
|-----------|-------|-------------|------------|-------|-------------|
| 7x9 inch | H1889 |\$0.85 | 7x22 inch | H1895 |\$2.10 |
| 7x12 inch | H1890 | 1.05 | 7x24 inch | H1896 | 2.30 |
| 7x14 inch | H1891 | 1.20 | 7x26 inch | H1897 | 2.50 |
| 7x18 inch | H1893 | 1.65 | 7x30 inch | H1898 | 2.75 |
| 7x21 inch | H1894 | 2.00 | 14x18 inch | H1899 | 3.75 |

REPLACEMENT PARTS FOR BATTERY CHARGERS

Valley Charger Points



To replace contacts when worn down or burned out. One contact is a carbon brush, the other is specially hardened alloy on the tip of a tempered steel spring. Stock No. H3361—
\$1.00
Per Set
List Price Per Set.

Gold Seal Homcharger Points

Supplied for replacement in this popular charger. Order a supply of these and keep them on hand to be prepared for the demand from your trade. Contact spring is adjustable. Tempered arm and specially hardened contact points. Stock No. H3360—
\$1.00
Per Set
List Price Per Set.



CELORON

STANDARD RADIO PANEL

and FORMICA BAKELITE

Genuine bakelite panels. In big demand by set builders. Finished black on one side, handsome walnut or mahogany effect on other side. Bakelite panels do not chip or warp, and take a high gloss finish. Stocked in standard sizes as listed below. Special sizes cut when cash accompanies order. List price 4 cents per square inch. Thickness, 3/16 inch. Either Spanling, Formica or Celoron supplied at prices below.

| Size | Stock No. | 1/8 inch Price | Stock No. | 1/8 inch Price |
|-----------|------------|----------------|------------|----------------|
| 6x7 in. | H1876—List | \$.70 | | |
| 7x9 in. | H1877—List | 1.00 | H1853—List | \$1.50 |
| 7x12 in. | H1878—List | 1.31 | H1854—List | 1.96 |
| 7x14 in. | H1879—List | 1.53 | H1855—List | 2.29 |
| 7x18 in. | H1880—List | 1.96 | H1856—List | 2.95 |
| 7x22 in. | H1881—List | 2.40 | H1857—List | 3.60 |
| 7x21 in. | H1882—List | 2.29 | H1858—List | 3.44 |
| 7x24 in. | H1883—List | 2.62 | H1859—List | 3.93 |
| 7x26 in. | H1884—List | 2.84 | H1860—List | 4.26 |
| 7x30 in. | H1885—List | 3.28 | H1861—List | 4.92 |
| 12x18 in. | | | H1862—List | 4.65 |
| 14x18 in. | | | H1863—List | 5.43 |

THE ACME WIRE RADIO PRODUCTS



"Celatsite" Wire—single strand, is unequalled for wiring sets and battery eliminators. Has a non-inflammable spaghetti insulation. Rebends without cracking. Strips easily for soldering. Comes in 30 in. lengths. 40 lengths—(100 ft.) in envelope. Five colors.

Per length 30 inches, H4850. List.....\$0.10
Package 40 lengths, 100 feet, H4850C. List..... 4.00

Flexible "Celatsite" stranded wire. For sub-panel wiring where flexibility is desired. Covered with non-inflammable compound. Will stand high voltage. convenient 25 ft. coils in individual boxes. Specify colors. Black, yellow, red, green, brown).

Sizes 16/30—18 stock, No. H4856. Coil 25 ft. \$1.00

Spaghetti Tubing. A perfect insulating tubing for radio and other electrical uses. Long life and flexibility. Five colors. Fits round wires No. 10 to 18. 30 inch lengths. Package, 40 lengths, 100 ft., H4857C—List.....\$4.00
Per length 30 inches, H4857—List..... .10

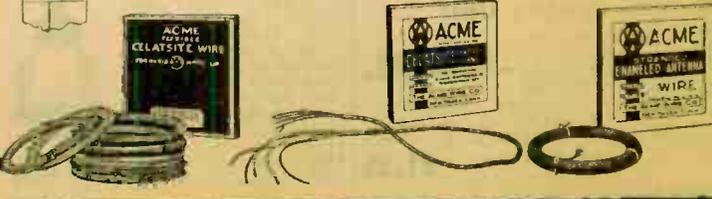
Loop Antenna Wire. Sixty strands of No. 38 copper wire and five strands of Phosphor Bronze twisted together and covered, first with a green cotton wrap and finished with an outer wrapping of green silk. Will not stretch. Neat and attractive and very flexible. 125 ft. on a metal spool. No. H4858. List \$1.50 per spool.

Celatsite Battery Cable. An attractive thoroughly insulated cable for connecting A & B Batteries to the Receiving set. No chance for wrong connections and "blown" tubes. Five or six different colored flexible Celatsite wires enclosed in cable.

5 feet long 5 wires, No. H4855.....\$1.00
5 feet long 6 wires, No. H4855A..... 1.20
5 feet long 7 wires, No. H4855B..... 1.40

Stranded Enameled Antenna Wire Seven strands of copper wire. Each strand enameled. Far more efficient than bare copper or tinned wire. Erect your aerial in one length without joints from the far-end insulator to the set. Coils in individual boxes.

Size 14—100 feet—No. H4859. List.....\$0.95
Size 16—100 feet—No. H4860. List..... .70



THE MOST COMPLETE STOCK OF RADIOS IN THE UNITED STATES

Guaranteed Schwarze Phones



The phones are built to stand hard usage. Super-sensitive—light in weight—small pattern—extra heavy magnets—6 ft. cords—hard rubber caps. Made in two sizes.

H114—
2,000 ohm. List **\$4.00**

H115—
3,000 ohm. List **\$4.50**

THE EXTRA SENSITIVE PHONES

AMERICAN BEAUTY NEW TYPE PHONES

The lowest priced and largest sellers on the market



New improved model has rubber ear caps instead of the old metal caps. 2000 ohms. Has double pole magnet, 18-strand double wrapped tinsel cord and tubular head band. The new caps are of molded rubber composition and the black japanned magnet housing has been replaced by highly polished nickel plate, making the American the equal in appearance of any high priced phone on the market.

100,000 Sold Last Season
By American Radio Mfg. Co.
They sell by the dozen for even the small dealer. Include them in every 1-tube and crystal set combination.
Note new low price, despite big improvements in this model. Extra low dealer price. Phones complete with cord. No. **\$3.00**



ALLEN BRADLEY PRODUCTS

Bradleyometer

A graphite disc potentiometer that is a distinct improvement over the wire wound type.

One knob provides a noiseless potential adjustment. Bakelite knob. All metal parts are nickelled. Non-inductive in operation.

Two sizes.
200 ohm. H219—List

\$2.00

400 ohm.
H220—List

\$3.00



Bradleystat

A graphite disc rheostat for all tubes. One hole mounting, Bradleystat fastened in position with one locknut.

A knurled, polished knob gives entire range of control. Provides an unbroken, noiseless stepless range of control of connections.



H218—List
\$1.85

Bradley Unit

A fixed resistor, calibrated accurately and especially suited for resistance, coupled amplifiers. Three sizes: 12,000 ohms (H332), 50,000 ohms (H323), and 100,000 ohms (H324)—
List **\$1.25**



BRADLEYOHM

An adjustable graphite disc resistor with wide stepless range of non-inductive resistance for radio applications. Three sizes: No. 10 (10,000 to 100,000 ohms), H214; No. 25 (25,000 to 250,000 ohms), H215, and No. 50 (50,000 to 500,000 ohms), H216.
List **\$2.00**



BRADLEYLEAK

A compact graphite disc adjustable grid leak that provides stepless and noiseless adjustment of grid leak adjustment for all tubes. Controlled by one knob. A 0.00025 mfd. fixed condenser can be furnished to fit Bradley leak terminals.

Endorsed by leading radio manufacturers and used in their sets. Provided with one hole mounting. H217—List. **\$1.85**
Condenser (0.00025) mfd. H217B, extra, 35c.



BRADLEYSWITCH

A compact, enclosed battery switch for "A" or "B" battery circuits. Saves tubes and batteries. One hole mounting. Installed in a few minutes and suitable for the finest set. All metal parts are nickelled and button is black.

H1823—
List **60c**



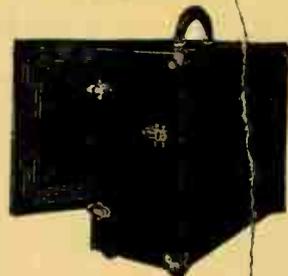
American Portable Cases Two Popular Sizes

No longer is it necessary to leave your radio set at home when you go traveling. Simply fit it into an American Portable Case and take it along. Hundreds of Radio fans are enjoying their sets on long transcontinental railroad trips and keeping in touch with the world at isolated camps.

Not a heavy cumbersome load to carry. The large size case completely fitted with an 8-tube Super set, batteries, Utah loud speaker and loop, weighs less than 25 pounds.

Finish of the American Portable Case is black fabricoid. All metal parts are heavily nickel plated. So staunch is the construction that case can be safely checked with other baggage, if desired.

Illustration shows how compactly an 8-tube set, complete with batteries, speaker and loop, fits into the large size American Portable Case.



H3749—Size 17x13½x9 to fit panel 9¼x10. List price

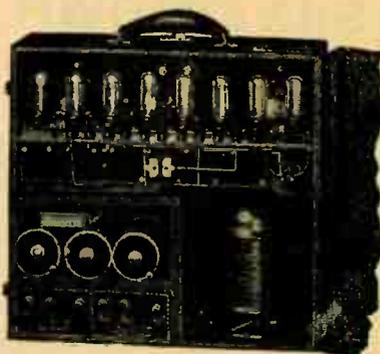
\$15.00

H3750—Size 18x17½x9½ to fit panel 8¼x17½. List price

\$30.00

Prices are for case only, without accessories.

If you wish to purchase a set to go in the above carrying case, write us, telling about what kind of set you would like, and we will gladly quote you.



EBY PATENTED POSTS

The tops of all Eby posts are non-removable. The ensign engraved type come in the following markings:

Ant., Loop, Gnd., Phone, Speaker+, Speaker-, A Bat+, A Bat-, B Bat+, B Bat-, C Bat+, C Bat-, B Det+, B Amp+, A+B-Bat., A-C+Bat. 22 Volts+, 45 Volts+, 67 Volts+, 90 Volts+, 130 Volts+, 135 Volts+. Plus (+), Minus (-), and plain top. These are potential or insulated posts.

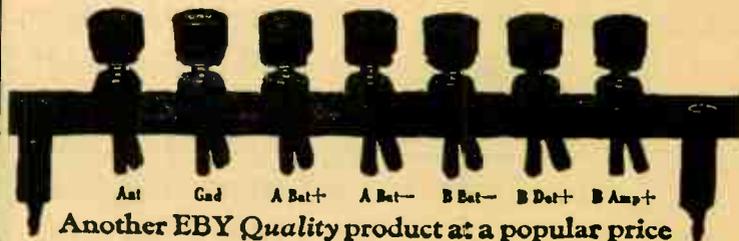


Ensign Engraved

| | Size of Post | Size of Stem | Lgth. of Stem | No. Each | List |
|-------------------|--------------|--------------|---------------|----------|------|
| Ensign—Plain Knob | ½x¾" | 6/32" | ¾" | H955 | .15 |
| Ensign—Eng. Knob | ½x¾" | 6/32" | ¾" | H956 | .15 |

BINDING POST STRIP.

This strip contains seven posts engraved in the most popular markings, mounted on a polished hard rubber strip, nickel-plated brackets and wood screws included. Soldering lugs at bottom of posts easily accessible. A handy item for the set builder. **\$1.25**



Ant Gnd A Bat+ A Bat- B Bat- B Det+ B Amp+

Another EBY Quality product at a popular price

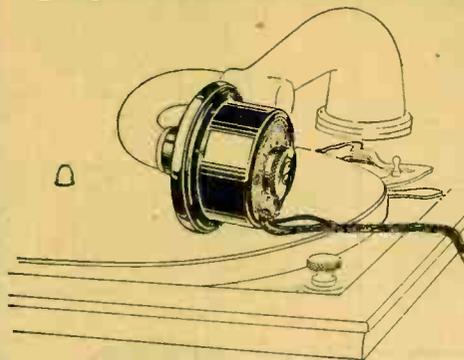


Tube Socket

For use with the new type UX tubes. Has the flat type base in which the long prongs of the new tubes fit perfectly. Socket No. H1932—List. **60c**

ONCE AN AMERICAN CUSTOMER—ALWAYS AN AMERICAN CUSTOMER

DICTAGRAPH ATTACHMENT



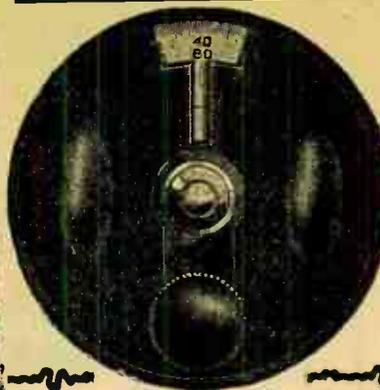
A product of the famous sound laboratories which make the Dictagraphs known to every detective story reader. Clear, natural tone reproduction is obtained through any phonograph with this high quality, adjustable unit. An exceptional value for the low price.

H3935—**10.00**
List

A quality product.

RATHBURN VERNIER DIAL

Friction drive, no backlash, ratio 12 to 1.



Scale beautifully lithographed in dull white on metal, graduated for both clock and anti-clockwise, one set of figures black, the other red. No glare or shadows on scale, easily read from any angle. Space for logging important stations. Applied with a screw driver, unnecessary to drill panel. Made of genuine bakelite, black or walnut. No. **\$1.25**
H1769—List ..

Dulce-Tone

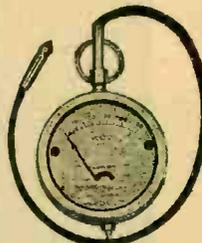
Links all radios with all talking machines. Using Dulce-Tone is almost identical to playing a record—you simply place the talking machine needle in the Dulce-Tone's grooved reed. Then plug into the radio set as with any loud speaker. That is all. Nothing to remove or take apart on your talking machine.



The reproduction of voice and music from radio is as fine and clear as that from a good record. There is no "blare"—no harshness or metallic rattle. "Naturalness" and fidelity to the original tones are outstanding characteristics. Dulce-Tone reproducer—No. H2779—**\$10.00**
List.....

The American Meter

Reads "A" and "B" batteries. These meters come in two types, one for reading voltage of "Bs" and one for combining voltage and amperage reading, both having a voltage reading, of 0 to 50, and the combination type having an additional amperage reading of 0 to 35 amperes.
0 to 35 amperes. S1566—List ... \$1.30
0 to 50 volts. H1567—List 1.30
0 to 50 volts in combination with 0 to 40 amperes. H1568—List 2.00



AMERICAN TUBE SOCKETS

Fits all UX base tubes



Answers the tremendous demand by radio fans for a high grade dependable socket which will fit the new type long prong tubes. American Socket. No. H2026—**50c**
List



AMERICAN TUBE REJUVENATOR

Brings back to active life, tubes rendered inoperative by excessive filament voltage or constant use. Just as long as the filament is not burned out, it makes them as good, if not better than new!

EASY TO OPERATE

Simply connect this device to 110 volts to 120 volts, 60-cycle current and follow directions as specified with the instruction sheet. Only 10 minutes required to rejuvenate any tube not burned out. Any one can do it.

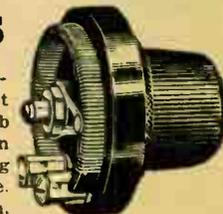


When your tubes get too low, reception is not good. Many other things have been blamed where often times it is merely the tubes in poor condition. A systematic recharging of tubes insures better reception at all times. American Tube Rejuvenator. No. H2025—**\$6.00**
List



American-Rheostats and Potentiometers

This rheostat is absolutely noiseless. Constructed along the latest lines in control unit manufacture. Has solid genuine Bakelite knob and element base, with element form set in the base that prevents warping and becoming loose. Element is of high-grade resistance wire. A positive contact insures smooth operation.

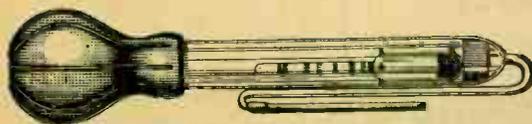


| | |
|------------------------------|--------|
| 6 ohm. No. H2038—List..... | \$0.60 |
| 10 ohm. No. H2039—List..... | .60 |
| 20 ohm. No. H2040—List..... | .60 |
| 30 ohm. No. H2041—List..... | .60 |
| POTENTIOMETERS | |
| 400 ohm. No. H2042—List..... | \$0.80 |



NO-LEAK-O HYDROMETER

THE NEW EASY TO READ HYDROMETER



A brand new item for the radio dealer. A hydrometer that eliminates all fear of acid burns and

the destruction of home furnishings. Merely insert the 15-inch rubber tube in the cell and the reading is easy to get without removing from the cell. Special float with three colors, yellow for full charge, blue for half charge and red for dead; makes No-Leak-O the easiest of all hydrometers to use for the radio amateur. H3489—List Price..... **\$1.00**

American Binding Post Strip

A convenient 1x1/4x7-inch hard rubber strip, engraved and mounted with seven quality binding posts, a real essential in the building of any set. Eliminates the drilling and setting of seven panel holes and makes terminal connections easy of access.

Extra sturdy construction, easily installed and because of the low price and many features set builders should buy in quantities. Can be used with one, three or five tube receivers.

| | |
|--|-----|
| Strip, without posts, but engraved. H923—List, each..... | .40 |
| Strip, engraved, with posts. H924—List, each..... | .75 |
| Plain strips, without engraving or posts. H924A—List, each.... | .25 |



AMERICAN GIVES THE MOST FOR THE MONEY

Philco Socket Power "AB"



An "A" and "B" battery eliminator. For use with 199 tubes only—designed especially for 8 tube super-heterodyne sets—operates on 110 volts 60 cycles AC.

H2157—List\$65.00

Philco "A"

Eliminates and takes place of storage "A"—works fine with sets using 201A Tubes. For 110v. 60 cycles AC. H2155—List\$42.50



Philco "B"



A popular "B" Eliminator delivering a constant even flow of "B" plate voltage. For 110v. 60 cycle AC. H2155—List ...\$47.50

Electra Audiohm



Mounts across the secondary of audio transformer to insure clear and true tones without distortion. Adjustable, and when adjusted remains the same capacity indefinitely, regardless of atmospheric conditions. This device not only reduces distortion to a minimum but positively eliminates transformer whine so pronounced in so many audio transformers. No. H4060—List.....\$1.50

Apex Vernier Dials



Adaptable to any 1/4 inch condenser shaft. They provide a ratio of 12 to 1. Always run parallel to panel. Positively no backlash. Smooth and quiet in operation. Easily installed. Adds a great deal to the appearance of any set.

Brass finish. H1781—List.....\$1.50
Brass finish. H1782—List..... 1.50
Silver finish. H1783—List..... 1.75
Silver, ACW. H1784—List..... 1.75
24-k gold plated. H1785—List... 2.50
24k gold plated. H1786—List.... 2.50

Trimm Chello Speaker



A most attractive and efficient enclosed speaker. Cabinet constructed of solid American walnut, with satin finish. It is 9 3/4 inches high, 15 inches long and 8 1/2 inches deep. Volume and tone controlled by an easy adjustment. Grille is designed along simple, pleasing lines. Fabric backing is of bronze brown color. No. H2723—List\$30.00

Trimm Cabinette Speaker



The Cabinette is a speaker of unusual quality at a very moderate price. Unique in shape, it takes up but little room on the console or radio table. The cabinet is attractively finished in dark brown mahogany. The speaker stands 13 1/2 inches high, by 7 1/2 inches deep and is 8 3/4 inches in width. No. H2722—List.....\$17.50

Howard Multi-Plug



A scientifically arranged plug that permits instant change from one to six pairs of phones without removing phones from set. Provides positive contact at all times. New reduced price. No. H140—List.....\$1.25

Rathburn Wave Trap



Tune out the undesired station by adjusting the center knob, the station that is interfering will be absorbed and effectively blocked in the trap. A simple, inexpensive, efficient device that makes Radio reception a real pleasure. No. H1925—List\$1.25

Ear Ease Cushions

Made of high grade, soft pure Para Rubber. A necessity if you use head-phones to any extent at all. No. H135—per pair—List.....\$0.60



Battery Mats



Rubber battery mats used for setting storage "A" and "B" batteries on so any spilled acid will not injure rugs or woodwork. No. H685—List\$0.75

Precision R. F. Coupler



May be used as a transformer for coupling two tubes in a circuit as a radio frequency amplifier. Designed especially for use with .0005 variable condenser. Coupler consists of a compact primary winding to be connected to the plate circuit of one tube and a split secondary winding, half on each side of the primary, to be shunted with the tuning condenser and connected in the grid circuit of the following tube. Per set of two—H3275—List.....\$5.00

Union Tip Jacks

A small item but a money maker for you. Just the thing for experimental hook-ups or the fan building his own set. Cheaper than jacks and eliminate the use of plug—just plug in with the phone tips. Standard Type A for panels 3/4 to 3/16" thick. Special Type B for panels, cabinet walls, partitions 5/16 to 1/2" thick. Special Type C for panel up to 1/4" thick. H866—List.....\$0.25

Switch Points and Stops



These are highly polished nickel-plated brass stops and points, for inductance terminals. Switch Points. H313. Per Doz.—List.....\$0.25
Switch Stops. H315. Per Doz.—List\$0.25

SPECIAL OFFER

100 Foot Roll
7 strand Aerial Wire
per roll--No. H-4250
List 50 cents

Yellow Empire Cloth

Varnished Cambric cloth, 36 inches wide, .007 thick. Any desired length. Price per square yard. H5220—List\$3.00

Porcelain Knife Switches



Four sizes:
SPST. H308—List each.....\$0.25
SPDT. H309—List each..... .35
DPST. H310—List each..... .40
DPDT. H311—List each..... .50



Little Joe Insulator
Made of brown ribbed porcelain. Very high grade. The lowest priced insulator on the market. No. H4315—List\$0.10

Panel Switch



Mounted on genuine Bakelite panel for mounting on panel baseboard and front. All metal parts nickel plated. Double pole, double throw as shown or 2 single pole double throw on

Socket Wrench Sets



Adjusts nuts in places impossible to reach with other tools. For all hex. nuts measuring 1/4 in., 1/2 in., 3/8 in., 7/8 in. and 1 1/2 in., with alligator jaw for odd sizes. Each set in genuine leather case. No. H782—List, per set\$0.25

Radio-Lectric Reamer

An indispensable tool in radio work. For enlarging drilled holes to the proper size. Only one size of drill need be used. Operates perfectly on bakelite, hard rubber, etc. No. H780—List\$0.25

Ground Switch

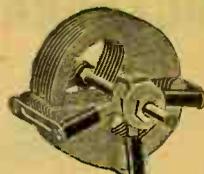
Absolute protection against lightning. 600 volt, 100 ampere, single pole double throw. Has 6-inch lightning gap. H312—List\$3.00



Tungar Bulbs

For use in Battery Chargers and A Battery Eliminators. Made in 2 and 5 ampere sizes.
H3340—2 amp. List.....\$4.00
H3341—5 amp. List\$8.00

Premier "Crofoot" S-L-F Condenser



| Min. Cap. | Max. Cap. | Stock No. | Price Each |
|-----------|------------|-----------|------------|
| 5 MMF. | .0001 MF. | H396 | \$2.75 |
| 5 MMF. | .00015 MF. | H396SW | 3.00 |
| 6 MMF. | .00025 MF. | H397 | 3.25 |
| 7 MMF. | .00035 MF. | H398 | 3.50 |
| 7 MMF. | .0005 MF. | H399 | 3.75 |

Fynur Dials

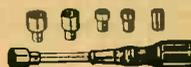


Absolute accuracy in reception. No gears. Friction drive. Backlash entirely eliminated. Greater distance and more stations now are possible with this exact method of control. No. H1794—List\$3.50

Extra Heavy Strain Insulator

Made of very heavy glazed porcelain. Note very low price on this item. A big seller. Stocked by nearly every dealer. H4320—List, each\$0.15

Socket Wrench Sets



Sizes 1/4 - 1/8 - 3/8 - 1/2 inch. One set to a box. No. H779—List, per set\$0.75

Radio-Lectric Template (Adjustable)

Indicates the exact location for the drilling of holes in panel or baseboard of any radio set. Fits perfectly on any part and is then locked in position by the thumb nut. Transferred to the panel where the part is to be located, mistakes in drilling are avoided. A great time and trouble saver. No. H783—List\$0.50

Steinite Interference Eliminator

This little device for the elimination of undesirable stations is for receivers that are not equipped for fine selective work. It also aids materially in reducing static to a minimum. No tools are needed for the installation of this clever little wave trap, for tube or crystal sets. H4080—List\$1.00

Radio-Lectric Countersink

For shaping holes in hard rubber, bakelite, fibre, wood, etc., to fit the heads of flat head screws. A necessary tool for the radio builder. No. H778—List\$0.50

Premier Audio Transformers

3 to 1 ratio. H623—List.....\$3.50
4 to 1 ratio. H624—List..... 3.50
5 to 1 ratio. H625—List..... 3.50
10 to 1 ratio. H630—List..... 4.50

Little Joe Lightning Arrester



An excellent, low-priced and efficient arrester that is approved by the National Underwriters. Furnished complete with bracket and screw. H823—
List **\$1.25**

Duplex Matched Condensers



Afford uniform dial settings and simplify logging. Make a Neutrodyne as easy to tune as a Radio-Frequency circuit. Each set of three condensers is guaranteed to have identical capacity curves when tested on a capacity meter. In addition, every guarantee slip is numbered so each purchaser may be given individual service by the Technical Department of the Duplex Condenser & Radio Corporation. Set of 3 matched 15 plate condensers. H1721—List **\$14.25**

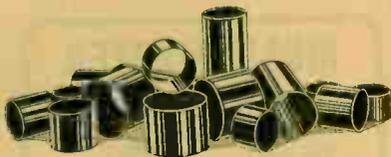
DUPLEX STANDARD

These condensers are especially designed to conform to the Bureau of Standards specifications for lowest losses and best electrical characteristics. Series FR.

- Plain 11 plate .000258 Mfd. H1717—List **\$4.25**
- Plain 15 plate .000362 Mfd. H1718—List **\$4.50**
- Plain 21 plate .000507 Mfd. H1719—List **\$5.00**
- Plain 41 plate .001000 Mfd. H1720—List **\$6.00**

Celoron Bakelite Tubes

6-inch lengths only.



Genuine natural bakelite tubes, with finished edges. Standard the world over. Wonderful dielectric properties.

- 1% I.D.x wall. H1900. Per in. **\$0.15**
- 2% I.D.x wall. H1901. Per in. **.15**
- 2% I.D.x wall. H1902. Per in. **.15**
- 2% I.D.x wall. H1903. Per in. **.15**
- 2% I.D.x wall. H1904. Per in. **.15**
- 2% I.D.x wall. H1905. Per in. **.15**
- 3% I.D.x wall. H1906. Per in. **.18**

Federal Transformers



A transformer of quality which is second to none and far ahead of a great majority of audio transformers now on the American market. For tone quality, volume and voice frequency this type Federal transformer has no superior at its price. Federal No. 65 audio transformer. H605—
List **\$5.00**

No. 66—Combines the advantages of No. 65A in one transformer. Tapped secondary. Simple 2-point switch connects either secondary tap to second tube. If signals are too strong tube can be connected to mid tap, thereby avoiding over loading. H601—List..... **\$5.50**

No. 226—This type supersedes the well-known No. 226W, for several years recognized for its superior voice and music amplification. Tone quality improved and greater gain in amplification. **\$3.00**
H606—List



Graybar Electric Washer



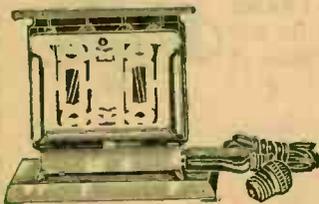
Our DeLuxe model washer employs the same reliable principle of operation that our machines have used for the last ten years. The new cabinet model includes all the late washer features, improved cylinder, all metal wringer and many others. In appearance it is in a class by itself.
No. 4 DeLuxe Model (Gal. Tub). Stock No. H5248—List Price **\$129.00**
4-C DeLuxe Model (Copper Tub). Stock No. H5249—List Price **139.00**
Complete with either 32 or 110 Volt motor.

Manning-Bowman Electric Percolator



A handsome nickel plated percolator large enough for the average family. Equipped with detachable plug and six feet of cord. Ebonized handles—400 Watts 7-cup size. No. 20. No. H5243—List..... **\$8.00**

Manning-Bowman Electric Toaster



Nickel plated. This toaster is large and fast, has a six-foot detachable cord with separable plug. 600 Watts. No. 6# Toaster. No. H5242—List..... **\$3.75**

Manning-Bowman Electric Waffle Iron



No. 40

Turn-It Grid Leak



A cylindrical adjustable grid leak, filled with a smooth, high resistance liquid that responds instantly, allowing a range of 1/2 to 5 megohms and can be adjusted to the exact requirements of detector tube. No. H330—List..... **\$1.00**

Graybar Electric Ironer No. 3



This 28" ironer does the ironing in one-fourth the time. Irons shirts, ruffles, flat pieces, etc. Clothes have better finish than when hand ironed.
No. H5237—
List **\$160.00**

Electric Cooker

Roasts. Bakes. Browns and stews. Uses ordinary lamp socket current. Can also be used as thermal jar to keep food hot or cold with the current off. Costs very little to run. Size 13" high, 10" in diameter. Aluminum compartment and cover. No. 10 Junior Cooker. No. H5244—List..... **\$12.50**



Electric Curling Iron No. 53



Manning-Bowman

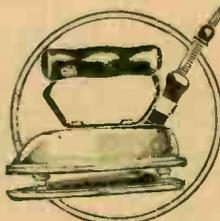
Blue enameled handle with cord to match. Heats to proper temperature. Made and guarantee for 1 year by Manning-Bowman.

No. H5245

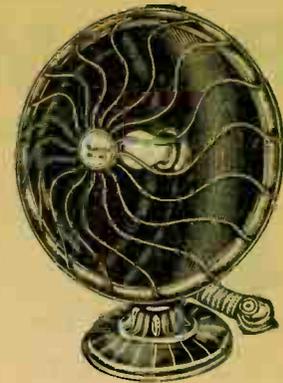
List **\$1.60**

Graybar Electric Iron

A new design iron of Graybar (Western Electric) complete with hand-laced, easily replaced element. Holds heat. Type 2 complete with stand. No. H5246—
List **\$3.95**



Graybar Electric Heater



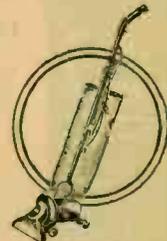
Gives the right amount of heat just where it's wanted. Economical to operate.
No. 75—14". No. H5238—List... **\$7.50**
No. 50—11". No. H5239—List... **4.75**

Manning-Bowman Electric Heating Pad



Size 11x14. Has 3 stages of heat. Equipped with washable slip-on muslin cover fully guaranteed. 15—Pad. No. H5240—List..... **\$6.00**

Graybar No. 14 Vacuum Cleaner



Our new straight air vacuum cleaner with the specially constructed nozzle. Typical of the new quality appliances Western Electric has for its appliance customers. You have only to try it out by actual comparison with other all-air vacuum cleaners—to appreciate the value offered in this cleaner.
New list price. H5247..... **\$36.00**
Complete set of attach. (extra) H5247A **7.50**

Graybar Electric Sewing Machine

The finest type of sewing machines. Have many new conveniences. Full set of attachments with each.



Portable Type

- No. 1 Vibrator Type. **\$57.50**
- No. 2 Rotary Type. No. H5231 **70.00**
- No. 3 Automatic Type. **80.00**
- No. 4 Two-Spool Type. **80.00**
- No. H5233 **80.00**

Console Cabinet Type

- No. 5 Console Cabinet with Rotary Head. No. H5234. **\$130.00**
- No. 6 Console Cabinet with Two Spool Head. No. H5235. **140.00**
- No. 7 Console Cabinet (small size) with Rotary Head. No. H5236 **97.50**

SWITCH LEVERS

Nickel plated, polished black knob, arm is standard in length of sweep. A high grade product. H295—
List—Each **25c**



REFER TO INDEX FOR COMPLETE INFORMATION OF ALL LINES

R-E-M-L-E-R

Super-Heterodyne Transformers



Remler parts belong in every radio circuit, because into the development of Remler radio parts has gone real inventive genius backed by the most thorough radio knowledge and the widest research experience. Every REMLER Type 600 is for use as an intermediate frequency transformer. Capable of covering a band of from 3,000 to 20,000 meters at a frequency of 100 to 15 kilocycles. The Type 610 Transformer is a tuned staged transformer for tuning a 40-50 kilocycle amplifier.



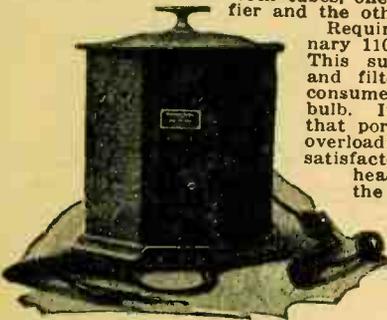
These two type transformers have gained a wide popularity in the construction of the Best 45,000 Cycle Super Circuit.

Intermediate Frequency Transformer (left). \$6.00
H1260—List

Tuned Stage Transformer (right). \$5.00
H1261—List

WESTERN ELECTRIC AMPLIFIER

The No. 25A is intended for use as an adjunct to a loud speaking telephone. It consists of a single stage amplifier with a self-contained current supply set for both tubes, one of which is used as an amplifier and the other as a rectifier.



Requires no batteries, using the ordinary 110-V 60 cycle AC house current. This supply is transformed, rectified and filtered and only the current is consumed as with a medium sized light bulb. It is intended to amplify only that portion of energy usually causing overloading in the last stage. Thus, if satisfactory volume is obtained in a headset from the detector tube of the receiver, one stage of ordinary audio-frequency amplification plus the No. 25A amplifier will give good loud speaker volume in a good sized room. In handsome metal cabinet.

H3755—List \$115.00

CLAROSTAT A UNIVERSAL RANGE VARIABLE RESISTOR

Eliminates distortion and gives life-like reproduction to speech and music; eliminates squeals and howls and makes possible the tuning in of distant stations, gives greatest possible range of regeneration.



Eliminating Distortion—A Clarostat connected across the secondary of the last transformer brings out voice and music with true fidelity of reproduction.

Stabilizing Tuned R. F. Receivers—Clarostat in the plate circuits of R. F. tubes controls oscillations and gives greater efficiency on D. X. signals.

Making Your Detector Work Better—Tubes especially designed for rectifying such as the U. V. 200 give better results with a Clarostat in the plate lead.

Increasing the Volume of Your Set—Adding a step of Clarostat coupled audio frequency amplification will give local volume on D. X. signals. Clarostat. H1191—List..... \$2.25

BALDWIN UNITS



With Phonograph Attachment

This is the famous Baldwin Type "C" unit, known the world over as the standard of loud speaking unit comparison. Supplied complete with rubber nipple for attaching to phonograph tone arm. This attachment sells for 35c. Deduct from price if not desired. Price, unit and attachment. H3927 \$3.00

WESTERN ELECTRIC



Phonograph Attachment

Made by the well-known electrical specialists. Superior in tone, volume and permanence. Easy to attach to any make phonograph. A splendid value and constructed of the best quality material. H3950—\$9.00
List

STERLING "B" Power Units



The Sterling units offer these features—reliability, freedom from repairs, permanent investment and economy of operation.

Built in Two Models
R-99 is for B plate voltage supply and R-97 for both B plate and C grid voltage supply. They operate from 110-120 volt, 50-60 cycle A. C. and give smooth flowing and silent B power for any set using 50 milliamperes or less, with or without the use of power tubes. R-99 has Medium and Detectors control knobs in connection with a 3 position switch. Adjustable up to 180 volts at 50 milliamperes and has adjustable up to 180 volts at 50 milliamperes and has adjustable High C and Low C voltages. Gives 40 volts of C bias for the radio and audio frequency tubes.

R-97 delivers up to 180 volts at 50 milliamperes and has adjustable High C and Low C voltages. Gives 40 volts of C bias for the radio and audio frequency tubes.

R-99—Power Unit. No. H1616—List \$45.00
R-97—Power Units (including C taps). No. H1617—List 55.00

Prices Complete With Raytheon Tubes.

RT-41 "B" BATTERY ELIMINATOR—TELEVISION DESIGN
This unit has many special features. Its small size, 7½x4½x5 inches, allows it to be placed inside of most sets instead of "B" batteries. A special vacuum fuse absolutely protects the unit and also the house current.

Knob Control Adjustment
The left hand knob on the front adjusts the voltage of the detector from 22½ to 45 volts, the right knob, the amplifier voltage from 45 to 90 volts. The rheostat inside case adjusts the amplifier voltage on last terminal from 90 to 135 volts. Will last a life time, nothing to renew except one tube, which will last as long or longer than average set tubes. Uses one full wave rectifier tube No. CX313 or UX213. No. T-41 "B" Battery Eliminator. Stock No. H1618—Without tube—List \$22.00
No. RT-40—Same as RT-41, but without 135 volt tap. Without tubes. No. H1619—List \$20.00
No. CX313 or UX213 tube. List 6.00



Brach CONTROLIT

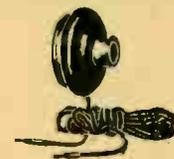
Makes 1 Switch Do the Work of 3



Automatically cuts off "B" power supply and closes circuit to charge "A" battery by trickle charger when set switch is turned off. When set switch is on, "B" power supply is on and trickle charger is off. H2189—List..... \$6.00

MUSIC MASTER Phono Attachment

The most popular attachment on the market



Makes a fine loud speaker out of any tone arm phonograph. Instantly attached or removed. No tools needed. This is an unusually sensitive piece of apparatus, every part of which is precision built. Will deliver a clear full tone without distortion. H3961—List \$8.00

SUPERETTE HEAD PHONES

Extra Sensitive



A wonderful aid in tuning in distant stations. Light and comfortable. Easy on the ears. Double magnets. Best quality winding. Will give satisfactory service to your customers. H3012—List \$3.50



Considered the standard of comparison. Only the best of selected materials used in the construction. Component parts balanced and matched. A splendid, clear tone is the result. Light in weight, will not tire the ears or head. Extra sensitive to all signals. Sufficient cord to lean back and enjoy the programs. Good headphones are essential to good reception. These give the utmost in results.

Brandes Headphones—Superior Type. No. H103—List \$5.00
Navy Type. No. H104—List \$6.00

AMERICAN BEAUTY SETS WILL BE LEADERS THIS YEAR



American Super 8 Receiver Kit 3000 Mile Range

A Superheterodyne at a Popular Price
Due to the popularity and great demand for the American Super 8 we are able to furnish high grade parts for one-half what other Super-Heterodyne parts sell for.

For Volume—Distance—Selectivity
The American Super 8 excels them all—and it only takes a 3-foot loop to do it.

The Super 8 Receiver puts the world's greatest radio, the famous Superset, conceded by all to be the greatest radio sensation ever achieved, within the reach of all. Costing but little more than the most inexpensive tube set of mediocre range and quality. For range, selectivity and tone quality it is unapproachable in results. Even the uninitiated are able to tune in distant stations with ease. Gives coast to coast range on a 3-foot aerial. Just follow layout and wiring diagram and success is assured. A school boy can build it with the plain blue prints furnished.

| SUGGESTED DRY CELL COMBINATION | |
|--------------------------------------|-----------------|
| 1 Super 8 in cabinet, not wired..... | \$78.50 |
| 1 3 Tap loop aerial..... | 5.00 |
| 8 C298 Cunningham tubes..... | 18.00 |
| 6 No. 1211 dry cells..... | 3.00 |
| 2 45-volt "B" batteries..... | 7.50 |
| 1 7 1/2-volt "C" battery..... | .85 |
| 1 Frost Muzette loud speaker..... | 12.50 |
| H2659C—Complete..... | \$125.35 |

Assembled But Not Wired
This 45,000-cycle Super-Heterodyne set is completely assembled on panel and baseboard ready to wire—complete instructions for doing this accompany each set. H2656—List.....
In special walnut cabinet as shown. H2656A—List.....

\$60.00

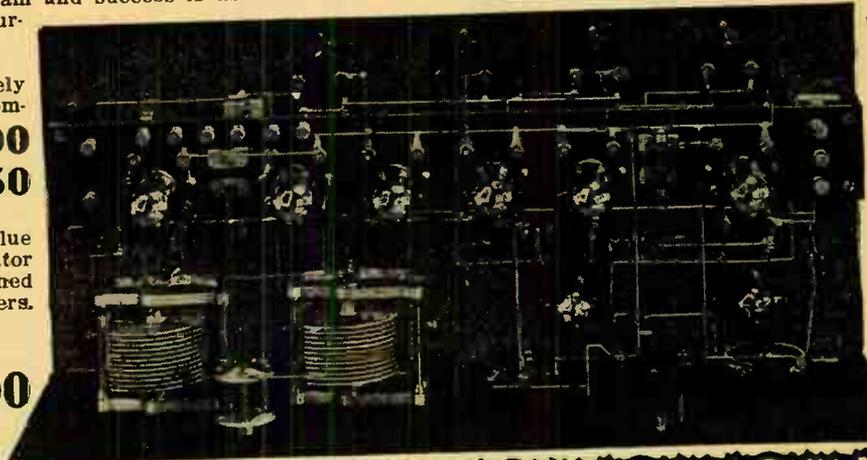
\$78.50

Essential Kit

With complete instructions and blue prints for assembly and 1 oscillator coupler, 1 filter coupler, 3 matched and tested intermediate transformers.

H2657—
List

\$18.00



AMERICAN S-L-F CONDENSER



All that could be desired in a condenser—minimum resistance, low loss, no crowding of stations. The special design and construction make the even separation of stations possible even down to low wave lengths. A good value. Nothing to get out of order. Will give

years of good service.

| Min. Cap. | Max. Cap. | Stock No. | List Price |
|-----------|------------|-----------|------------|
| 6 MMF. | .00025 MF. | H2029 | \$2.50 |
| 7 MMF. | .00035 MF. | H2030 | 3.00 |
| 7 MMF. | .0005 MF. | H2031 | 3.50 |



AMERICAN GOLD SEAL

5-TUBE PARTS
FOR
NEUTRODYNE OR TRF
CIRCUIT



Moderate in Price
EXCELLENT RECEIVER

Here is an item on which you can make real money and yet give your trade a surpassing value. This kit builds up into the circuit which is the most popular of all of them this season—the 5-tube Neutrodyne. It is easy to assemble, easy to operate and gives marvelous results. Sell it as a kit, or do as many dealers are doing and build it up yourself in your spare time into a set retailing at \$100. Complete parts not an essential kit, at this amazing price.

SUGGESTED COMBINATION

| | |
|--|---------|
| 1 American Gold Seal kit..... | \$40.00 |
| 5 American 201A tubes..... | 10.00 |
| 1 American No. 59 storage battery..... | 20.00 |
| 2 American 45-volt "B" battery..... | 7.50 |
| 1 Manhattan Junior speaker..... | 10.00 |
| 1 American antenna assembly..... | 3.50 |

H2658C—List.....\$91.00

List \$40.00
No. H2658

EXTRA
BIG
VALUE

AMERICAN Audio Transformers LOW RATIO

A transformer, which, in point of construction, efficiency and appearance, cannot be duplicated or equaled on the market today at anything near its price. It covers the entire scale, both the low and high tones being faithfully reproduced; and its ability to render undistorted volume stamps this new transformer as one of the really new feature items in transformer manufacture offered this season.

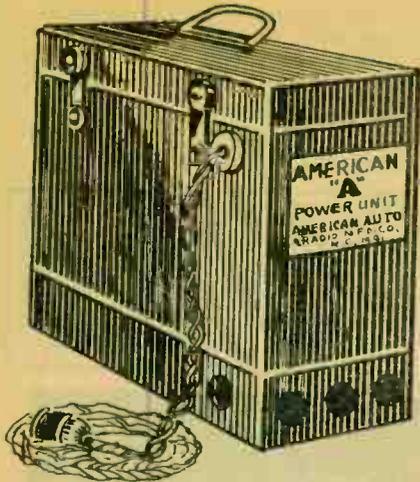


American Low Ratio Audio Trans-
former. No. H2037—List **\$2.00**



OUR PRESIDENT STANDS BACK OF EVERY SALE PERSONALLY

AMERICAN "A" Power Unit



(Silite Electrolitic)

The Ideal
A-Power
For the
Home

Works From Light
Socket

Simple and Positive
Operation

Makes Reception
Better

A combined storage battery and trickle charger. Works only when the set is in operation. Absolutely noiseless, no hum or buzz of any kind. It delivers steady and constant "A" power which will give the best possible reception at all times.

The operating cost is less than 1/2 cent per hour and it contains nothing that requires replacement. Will last indefinitely and pays for itself many times in the saving of rechargings. Neat and compact, contained in an attractive case.

Furnishes 4 or 6-volt current for operating up to 8 201A tubes or their equal, consuming not more than 2 1/2 amperes.

Although there are a number of methods of "A" power supply on the market, we highly recommend this power unit. The design, construction and principle are such that it will give dependable service for years.

American "A" Power Unit, complete, ready for operation. Stock No. H1050—List.....\$38.00



AMERICAN B ELIMINATOR



The ideal "B" power supply for every receiving set. A smooth, even flow of "B" current is necessary at all times for the best reception. This American "B" Eliminator will give exactly the proper current at all times. Absolutely dependable and trouble-proof.

Rated at 150 volts, but tests show it will deliver up to 200 volts. Has 3 variable resistance taps. One tap delivers from 2 to 24 volts, one from 24 to 60 volts (at rating). A metal cap protects and shields the tube. Neat and compact, housed in a pressed steel case.



American B Eliminator, complete, but without tube. No. H3308—List.....\$50.00

Raytheon Tube—No. H2893—List..... 6.00

RAYTHEON TUBES

This is the invention which perfects the B Eliminator. Gives pure resonant tone, reserve power, and freedom from worries of all kinds. The Raytheon rectifier tube is the result of prolonged experimentation. It is the product of a well known organization, and is sponsored by radio magazines and radio editors everywhere. Has no filament. Gives full wave rectification. Has long life. Develops ample power to operate a 10-tube set. Results are always dependable.

Type B—40 M. A. No. H2893—List.....\$6.00
Type BH—65 M. A. No. H2927—List..... 7.00



INSTRUCTIONS FOR ORDERING

Include Parcel Post Charges—see table below.

In ordering goods sent by parcel post, always include enough to cover insurance. 5c insures any package under \$25. 10c on packages over \$25 and 5c additional for each \$25.

In ordering goods shipped by Express it is not necessary to include transportation charges, as charges will be sent collect.

OUR TERMS

Cash with order or C. O. D. Foreign and Canadian shipments must be remitted in full. On C. O. D. orders it is not necessary to figure parcel post charges as this will be added. Remittances should be made by Postal or Express Money Order, Bank Draft or Cashier's Check. If you send currency, register the letter.

VERY IMPORTANT RETURNING GOODS

Return merchandise must be prepaid. This is a positive rule. We will not accept C. O. D. shipments on return merchandise. For your own protection, if returning merchandise by parcel post, have the parcel insured.

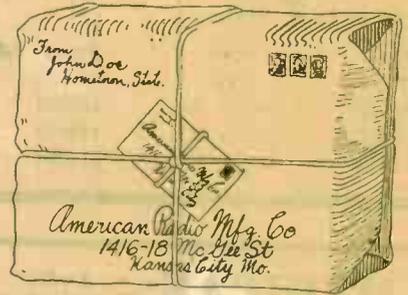
How to Figure Parcel Post Charges

| How Far Do You Live From Kansas City? | If you live in Zone 1 Not more than 50 miles from K. C. | If you live in Zone 2 Over 50 miles not more than 150 from K. C. | If you live in Zone 3 Over 150 miles not more than 300 from K. C. | If you live in Zone 4 Over 300 miles—not more than 600 miles from K. C. | If you live in Zone 5 Over 600 miles—not more than 1000 miles from K. C. | If you live in Zone 6 Over 1000 miles—not more than 1400 miles from K. C. | If you live in Zone 7 Over 1400 miles—not more than 1800 miles from K. C. |
|---|---|--|---|---|--|---|---|
| For weights up to 1 Lb. the postage is..... | 7c | 7c | 8c | 9c | 10c | 11c | 13c |
| For each additional pound or fraction of a pound, add | 1c | 1c | 2c | 4c | 6c | 8c | 10c |

Example

If you live in the 2d zone and order merchandise weighing 10 pounds, the parcel post charge is 7c for the first pound and 1c for each of the nine additional pounds (9), making a total of 16c.

Be sure to send plenty of money to cover postage if you want goods sent by Parcel Post.



HOW TO RETURN GOODS FOR EXCHANGE

By Parcel Post: Pack securely in heavy paper and tie with a strong cord. Address the package to us and write your name and address on it. See illustration above.

Write us a letter telling why you are returning the goods and just what you want us to do. Put the letter in an envelope, seal it and then either paste or tie the envelope to the package as shown in the picture. Don't seal the package! Put a two-cent stamp on the envelope, seal it and then either paste package.

By Express or Freight: Follow same instructions as above. Be sure that your name and address are on the package or crate. Enclose the express or freight agent's receipt in your letter and mail it to us.

Important! Read This Before Ordering

On account of our rock bottom prices and our three per cent cash discount, as well as the high cost of packing fragile radio merchandise, we cannot handle an order for less than \$5.00 and make a profit.

We maintain an unusually large shipping room force in order that we may give you the three hour service that we are so proud of, and that extra force costs us money. To be perfectly frank, we just about "break even" on an order for \$5.00, and we lose money on smaller orders. You know that we cannot afford to do business

at a loss any more than you can, so we here and now appeal to your sense of fairness and square dealing. When you send in a small rush order, please try to include enough standard merchandise that you know you will use to bring your order up to at least \$5.00. Remember that we are in business to serve you and we cannot stay in business unless we make a profit. When you make your orders large enough that we do not have to lose money on them we can serve you the more efficiently and willingly. Thanks, very much!

OUR MONTHLY CATALOGUE WILL CARRY MANY NEW ITEMS—LOOK FOR THEM

American Truphonic 6-Tube Receiver

Astonishing Reproduction

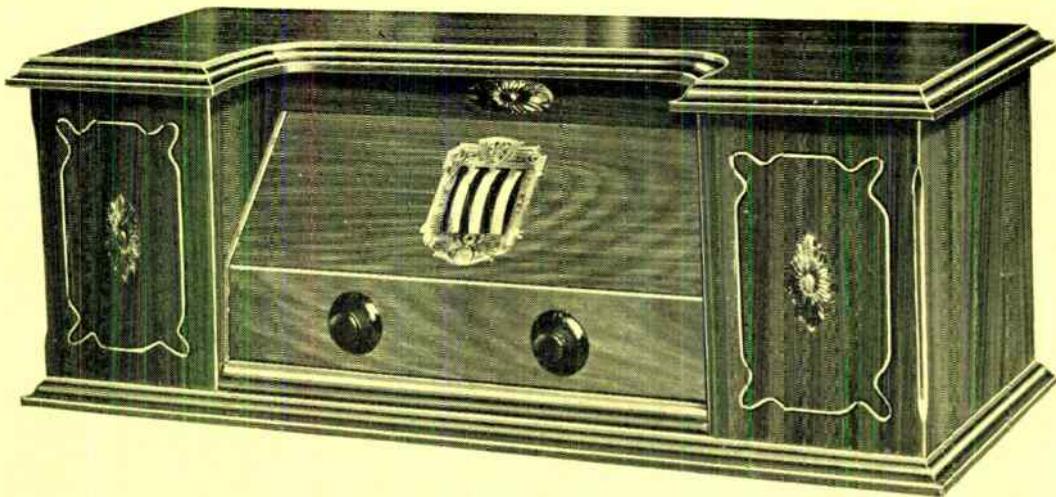
A NEW AND REVOLUTIONARY METHOD OF AMPLIFICATION

Localized Control Tuning Unit.

Simple one hand tuning.

All the ease of single control without its limitations and disadvantages.

Triple condensers centralized under the fingers of one hand.



A new standard of marvelous reproduction, using the NA-ALD Truphonic Amplifier.

The ideal in perfect amplification and reproduction.

Hear it once and know the actual purity of the original.

CIRCUIT—Tuned radio frequency employing the new Truphonic amplifier and a triple condenser with a localized control unit. This amplifier is entirely new in theory, design and construction.

TRUPHONIC TONE—Here you have amplification that practically duplicates the sounds and tones as heard from the loud speaker at the broadcasting station. F's and V's are separated, applause is not just a roar, but an actual clapping of hands. It has the proper amount of volume so that you do not have to hold your ear to the speaker, but can set back and feel the original actually at hand.

LOCALIZED TUNING CONTROL—The triple condensers tune easily with the fingers of one hand. Without even shifting the fingers, each condenser is brought to the point of greatest volume. This gives good selectivity and great tuning ease.

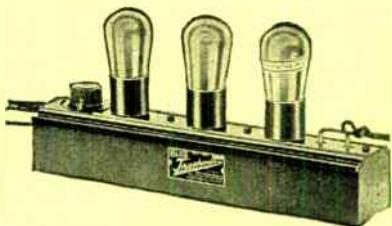
KIT ASSEMBLY—is not difficult. Anyone can put it together and wire it. Very few tools required. The panels are drilled at the proper places for the mounting of parts. Blue prints and specifications are complete and easy to follow.

A REAL RECEIVER—When this kit is assembled you will have a set that you will exhibit with great pride. It is neat and compact and presents an unusual appearance in its special cabinet. After the first appearance comes the operation. This set in actual performance will win anyone. Its ease of tuning, its great selectivity, makes it a real pleasure to operate. Then the wonderful tone, made possible by the Na-Ald Truphonic amplifier, is practically the same as comes from the loud speaker in the broadcasting station.

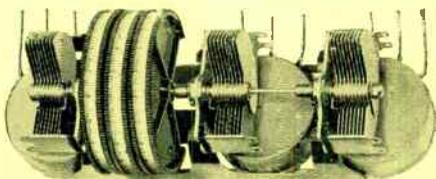
THE NEW AMPLIFICATION—The Na-Ald Truphonic Amplifier is a new standard in reproduction. It is a revolutionary method of amplification that gives astonishing results. It is advisable to stock these kits and to carry a few separate amplifiers, as they are the real feature of features in the radio world for the coming season. **American Truphonic 6-Tube Receiver Kit** (complete parts ready for assembly, including cabinet). No. H2930—List... **\$65.00**

We will build this kit into a set and wire it, if desired, for \$25.00 additional. **American Truphonic Receiver, assembled and wired, in special cabinet.** No. H2931—**\$90.00**
List

Na-Ald Truphonic Amplifier



Na-Ald Localized Control



on an old set, or a new one, with a speaker that you've condemned as impossible. Tune in a station you've ruled as poor. The results of this revolutionary Truphonic amplifier will be more than startling. A test under such unfavorable conditions will bring a realization of its great advancement in reproduction. Sold **\$20.00** separately if desired. Truphonic Amplifier No. H1788—List.....

(Three-tube top strip, but without tubes.)

This is the localized control unit used in the kit. Sold separately if desired. Triple condenser No. H2173—List..... **\$10.00**

SUGGESTED COMBINATION

| | |
|--|----------|
| 1 Complete parts American Truphonic six-tube kit, including special cabinet..... | \$ 65.00 |
| 5 CX301A Cunningham tubes..... | 10.00 |
| 1 CX371 Cunningham tube..... | 6.00 |
| 1 160-hour storage "A" battery..... | 20.00 |
| 2 45-volt, 2303 Ray-O-Vac "B" batteries..... | 7.50 |
| 2 22½-volt 5151 "C" batteries..... | 3.50 |
| 1 American Beauty cone speaker..... | 16.00 |
| 1 Complete aerial assembly..... | 3.50 |

Complete parts H2930C—List...\$131.50

The above combination with the American Truphonic 6-tube receiver, built-up and wired, ready for use. Complete H2931C—List.....\$156.50

(Included in the kit, with six-tube top strip.)

This amplifier makes wonderful undistorted reproduction. Engineers have long believed such amplification possible. Many experiments and combinations have been tried and used, some a little better than previous attempts. But now a real stride, a truly great accomplishment has been made. Use this amplifier

List of All Parts in Kit

- 1 Localized control unit complete (consisting of 3 350-mikro-mikro Farad variable condensers mounted on chassis and including 3 speedometer type dials grouped together—Alden patent—front plates for panel, etc.)
 - 1 Truphonic amplifier, 3 stage audio with six gang socket strip, especially designed for this set, 6-wire battery cable, binding post strip, etc.
 - 3 Special Sickles shielded coils, designed for this set.
 - 2 panels.
 - 1 Set of brackets.
 - 1 .00025 Grid condenser.
 - 1 Daven No. 50 mounting.
 - 1 Polymet 2-meg grid leak.
 - 1 Carter 3-ohm rheostat.
 - 1 Carter 10-ohm rheostat.
 - 1 Complete set of blue prints and specifications.
 - 1 Cabinet as shown.
- Complete parts, including cabinet. H2930C—List..... **\$65.00**

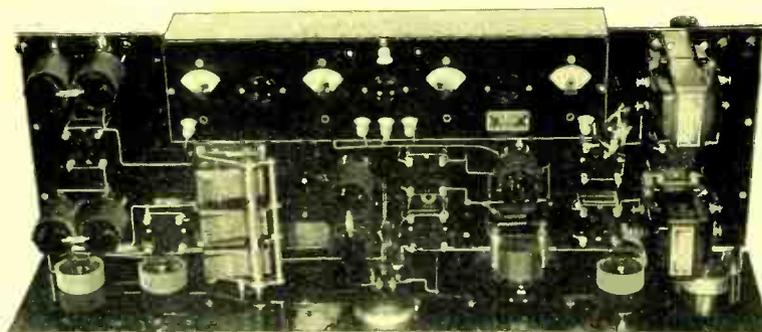
MAKE THIS CATALOG YOUR BUYING GUIDE

SUPER-SENSATION OF 1927

The Famous Infradyne 10-Tube Circuit—The Marvel of Reception

SELECTIVITY Never before thought possible
STONE QUALITY without rival—Good as in the station itself

No harmonics, stations come in at one dial setting only. Separates the far from the near stations at close wave lengths.



Complete kit. Assemble and wire it yourself. Instructions easy to follow. Results far ahead of any receiver ever built. The real Super-Performer.

TEN-TUBE RECEIVER—THE SUPER MARVEL OF RECEPTION—List \$113

List of Complete Parts In Kit

- 1 7x28x 3/8-inch Bakelite Panel Drilled and Engraved
- 1 8 3/4 x 27 x 3/8-inch Bakelite Panel, Slotted
- 1 Remler No. 700 Infradyne Amplifier
- 1 Remler No. 630—.00035 Condenser
- 1 Continental .00035, 3 gang Condenser
- 1 No. 506 Weston Double Scale 0-8, 0-150 Voltmeter
- 1 Pair Benjamin Brackets
- 1 Frost No. 710 Metal Frame Rheostat
- 2 Frost No. 730 Metal Frame Rheostats
- 1 Frost No. 608 Switch
- 1 Frost No. 954 Gem-Jac
- 1 Frost No. 234 Jacks—Pan-Tab
- 1 Frost No. 235 Jacks—Pan-Tab
- 1 Frost No. 880 Series High Resistance Unit 0-50,000 Ohms
- 6 Frost No. 530 Sockets
- 1 Benjamin Cushion Socket UX
- 1 Set Camfield Duoformers
- 1 Camfield Oscillator Coupler
- 2 Thordarson R-200 Transformers
- 1 Type CM Jones Multi-Plug
- 2 Sangamo 1 MFD.
- 2 Sangamo .00025
- 1 Pair Sangamo Grid Leak Clips
- 1 .0005 Sangamo Condenser
- 2 K-K Vernier Dials.
- 1 Lynch Grid Leak Mountings
- 1 Lynch Grid Leak 1 Meg.
- 1 Lynch Grid Leak 2 Megs.
- 5 Eby Marked Binding Posts
- 1 Carter 2 Ohm Resistance
- 3 Carter 4 Ohm Resistance
- 1 Miscellaneous screws, wire, lugs, etc.
- 1 Carter Fixed Resistance
- 1 Complete Set Blue Prints and Instructions.
- No. H2607—List\$113.00

Circuit—The Infradyne set uses ten tubes, an oscillator, two stages of r.f. amplification, first detector or mixer, three stages of 95 meter amplification, second detector or demodulator, and two stages of audio frequency amplification. It has two tuning controls, one dial operating a triple condenser to tune the two r.f. stages and another the oscillator tuning condenser.

Tuning—Because of the extremely high frequency—3,200,000 cycles—that is efficiently amplified the set entirely eliminates all harmonics and stations come in only at one place on the dials. Naturally this makes the Infradyne the most selective set of all.

The Right Parts—The parts list are the best made. They are the identical ones specified by the designer of the set. Each has been carefully tested and is the proper part to give the best results.

Actual Results—Here are several actual tests that give an idea of the set in operation. At Oakland, California, ten blocks from KTAB 240 meters, 1000 watts, KFSD in San Diego, 246 meters can be brought through on any night, using a 25-foot antenna. KGO, 361 meters, 3000 watts, can be eliminated on 350 and 375 meters respectively, leaving CZE, Mexico City, and KTHS, Hot Springs, Ark., in the clear. KPO, 423 meters, 1000 watts, does not interfere with CFCN, Calgary, 435 meters, or WLW, 422 meters on a good night.

The Kit of the Season—This is undoubtedly the sensation of the year and for many to follow. For those who want the utmost in Radio, this is the circuit. It is not difficult to assemble and wire, any one can do it. Dealers can build them easily and sell them assembled. The American Auto and Radio Mfg. Co. will wire them for you at a moderate service charge. Infradyne Complete Kit, No. H2607—List.....\$113.00

Ten tubes, each a factor. The marvel of Receivers. Out performs any set ever built. Uses shielded laboratory balanced amplifier.

SUGGESTED COMBINATION

- 1 Complete Parts Infradyne Super-Receiver ..\$113.00
- 5 UX201A or CX301A Radiotron or Cunningham tubes 10.00
- 4 UX299 or CX399 Radiotron or Cunningham tubes 9.00
- 1 UX112 or CX112 Radiotron or Cunningham tube 6.50
- 1 160-ampere storage "A" battery 23.50
- 3 45-volt 2303 Ray-O-Vac "B" batteries.... 11.25
- 1 Utah New Book Speaker..... 19.00
- 1 Antenna assembly 3.50
- Complete—H2607C—List\$195.75

REMLER AMPLIFIER USED

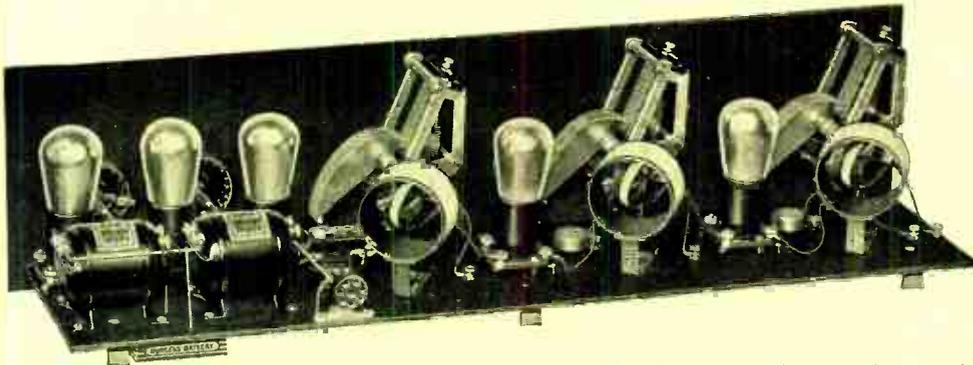
This is the new Remler Amplifier, designed for and used in the Infradyne circuit. It is a new laboratory match and balanced amplifier that makes possible astonishing receptions. Increases range and selectivity of set and gives real, undistorted tonal quality. Designed and made to bring in the weak signals of the far distant stations. Makes a great improvement on any Super-Hetrodyne type of circuit. Description cannot adequately set forth its results, but an actual test will bring out the almost uncountable advantages. Included in the Infradyne kit. Remler Amplifier. No. H2217—When sold separately for other circuits—List.....\$25.00



IF IT'S NEW IN KITS—WE HAVE IT

The New KARAS EQUAMATIC

Radio Broadcast's Feature Circuit for 1927



The 5-Tube Sensation

Gets Laboratory Perfection With a Home Built Set

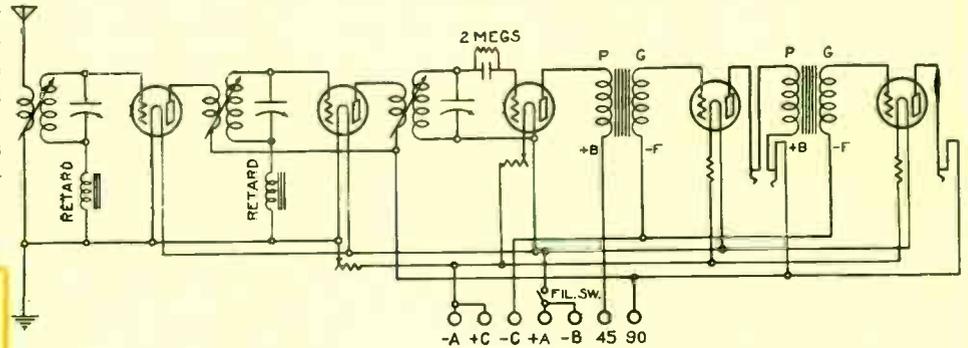
Wonderful Results—Unusual Distance With Extreme Selectivity
Beautiful Undistorted Quality

The Newest in Circuits—The Utmost in Results

Below is a complete list of parts in the essential kit used for making up the new Karas Equamatic, Radio Broadcast's feature circuit for 1927. These parts have been carefully selected and tested and will give the best results in this circuit. The instructions are easy to follow and assembling and wiring is a pleasure. Anyone can build it. Dealers can assemble and sell them as finished sets. Karas Equamatic, the feature circuit of Radio Broadcast.

The Equamatic System Automatically provides a continuous maximum and an absolutely equal transfer of energy between primary and secondary inductances at all wave lengths by a coupling system unique to radio engineering practice—it also

DIAGRAM OF CIRCUIT



LIST OF COMPLETE PARTS

| | |
|--|---------|
| 3 Karas Equamatic R. F. Transformers | \$12.00 |
| 3 Karas Orthometric .00037 mfd. 17-plate. Extended Shaft Condensers | 21.00 |
| 3 Karas Micrometric Vernier Dials | 10.50 |
| 2 Karas Harmonik Audio Transformers | 14.00 |
| 2 Karas Electric Co. Equamatic Retard Coils | 2.00 |
| 3 Karas Electric Co. Equamatic Sub-panel Brackets for | .70 |
| 1 Formica Insulation Co. Karas Equamatic Drilled and Gold Engraved Front Panel 7x28 inches | 6.80 |
| 1 Formica Insulation Co. Karas Equamatic Completely Drilled Sub-panel | 4.69 |
| 1 Yaxley 10 ohm Rheostat with Dial (Gold) | 1.50 |
| 1 Yaxley 20 ohm Rheostat with Dial (Gold) | 1.50 |
| 1 Yaxley No. 4 Interstage Phone Jack (Gold) for First Stage Audio | 1.05 |
| 1 Yaxley No. 1 Open Circuit Phone Jack (Gold) for Second Stage Audio | .75 |
| 1 Yaxley Filament Switch (Gold) | .75 |
| 1 Sangamo .00025 mfd. Fixed Condenser with Grid Leak Clips | .50 |
| 1 Amsco 2 megohm Grid Gate | .45 |
| 2 Radiall No. 1-A Amperite 6-volt Resistors with Mountings | 2.20 |
| 1 Burgess 4 1/2-volt "C" Battery | .60 |
| 1 Jones Multiplug with Mounting and 8 ft. cable | 4.50 |
| 5 Benjamin UX Cushion Sockets | 3.75 |
| Binding Posts, Screws, Bus Wire, Soldering Lugs, Spaghetti, etc. | 1.00 |
| Complete Parts—No. H2627—List | \$90.24 |

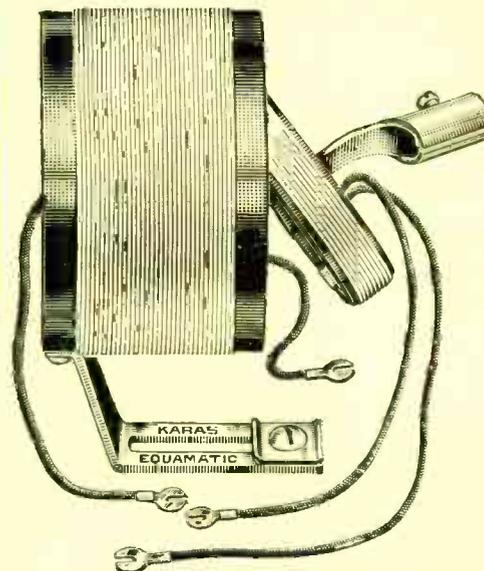
eliminates the overlapping of electrostatic and electromagnetic fields with their harmful, broadening and distorting effects.

The result of the Equamatic system from five tubes is a clean, clear, pure and powerful signal—equal in volume to the usual six and seven-tube sets—sharpness and selectivity equal to the superheterodyne—sensitivity equal to a regenerative circuit—and a purity of tone equal to a crystal detector.

In the Equamatic system the primary coils are attached to the shafts of the condensers—and are adjustable in their relation to both the condenser shafts and the secondary coils. The primaries are also entirely separated from the secondaries. The secondaries are adjustable to any angle in relation to the primaries and also as to their degree of coupling with the primaries. The primaries are automatically, constantly and continuously varied—at a definite, ever changing rate of variation—with the turning of the condenser dials.

On account of the extremely high efficiency of this system, the reception from

a home built five-tube Karas Equamatic receiving set is as nearly perfect as radio reception can be with present day knowledge.



New R. F. Transformer and Retard Coil

These two items, new in design, are specified and used in the kit. They produce unusual results. Can be used in other types of circuits. Sold separately if desired.

| | |
|----------------------------|--------|
| R F Transformer No. H2904— | \$4.00 |
| List | |
| Retard Coil No. H2905— | 1.00 |
| List | |



SUGGESTED COMBINATION

| | |
|-------------------------------------|----------|
| 1 Complete Parts Equamatic Receiver | \$90.24 |
| 5 DL5 DeForest Tubes | 10.00 |
| 1 100-Ampere American Storage Bat. | 20.00 |
| 2 45-volt 2393 Ray-O-Vac "B" Bats. | 7.50 |
| 1 American Beauty Cone Speaker | 16.00 |
| 1 American Antenna Assembly | 3.50 |
| Complete, H2627C—List | \$147.24 |

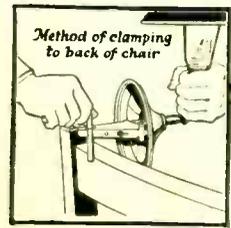
ONE OF THE BIGGEST KITS OF THE SEASON

GREIST Lamps

STAND, HANG, CLAMP ANYWHERE, ANY POSITION

THE only complete line of adjustable, clamping lamps on the market. The stem and shade of all lamps are adjustable and within the weighted base of each is a unique clamping or hanging device for attaching to head of bed, back of chair, to the wall or elsewhere. All Greist Lamps, except the new Desklight, will stand, hang, clamp—anywhere, at any angle, directing the "light where you want it."

They are well proportioned—a happy combination of beautiful designs and finishes with an adaptability to countless uses in home, office, studio or workshop. All lamps complete with eight feet of good quality parallel cord, approved socket and two-piece attachment plug.



THE JUNIORLITE

The quality product of the clamping lamp field and the most versatile of all Greist lamps.

Brushed Brass, Mahogany Bronze or Ivory Enamel. H5150—List \$4.00
Decorated—Mahogany Bronze, Ivory or Statuary Bronze, also in plain Statuary Bronze and Ivory with Varicrystl Shade. H5151—List \$5.00



THE NEW SUPER ADJUSTABLE LAMP

Artistically designed—well made—beautifully finished. A quality product and a price leader.

Brushed Brass, Mahogany Bronze or Ivory Enamel. H5153—List \$2.50
Decorated—Brass, Mahogany Bronze, Grey, Old Ivory or Statuary Bronze; also in plain Statuary Bronze. H5154—List \$3.00

\$2.50 and \$3.00

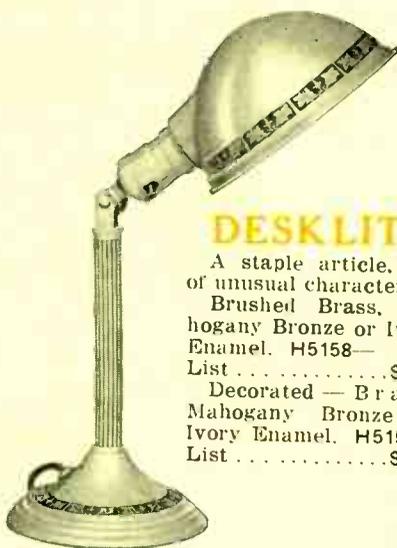


SUPER LAMP

with Varicrystl Shade \$3.00

A beautiful Boudoir or Radio Lamp with all the utility features of the other Greist Lamps—an outstanding value.

Shades in 6 assorted colors, with Ivory or Mahogany base. H5152—List \$3.00



DESKLITE

A staple article, but of unusual character.

Brushed Brass, Mahogany Bronze or Ivory Enamel. H5158—List \$3.25
Decorated—Brass, Mahogany Bronze or Ivory Enamel. H5159—List \$3.75

GREIST LAMP

(Illustrated below.)

Sturdily designed—a real man's lamp. 13½ inches high.

Brushed Brass or Mahogany Bronze. H5155—List \$5.00

Statuary Bronze. H5156—List \$6.00

Decorated Statuary Bronze. H5157—List \$7.00



"Light Where You Want It"

DEALERS—IF YOU HAVE LOST YOUR CONFIDENTIAL PRICE LIST, WRITE FOR IT.

United Line of Radio Cabinets Extraordinary



MODEL 685

Model 685—With built-in speaker and battery space. An unusual and artistic cabinet for the home. Designed in the studios of the United Cabinet Manufacturers Corporation under careful supervision. Model 685 is a real masterpiece; beautifully hand-decorated and has genuine inlays; the public's approval is easier met wherever this radio is displayed. (The top and doors are edge-banded) has sliding pull-out drawer in front of batteries. Has sliding pull-out mounting panel. Accommodates radio set 30 inches long, 9 inches high, 11 inches deep or less. Outside dimensions: 36 inches long, 53½ inches high, 17½ inches deep. Made of genuine walnut plywood, high light finish. Has built-in Utah Unit speaker. A beautiful specimen of cabinet craft.

Model 685—
No. H3738—
List **\$160.00**

Model 667—Cabinet—A very high grade and beautifully designed console radio cabinet. built-in wood speaker. Utah loud speaker unit and battery case combined. Has doors in front of speaker and radio set. Made with genuine butt walnut front with real birdseye maple overlay on doors, bottom rail and front legs. Special treatment finish of walnut—hand decorated. Outside dimensions, 25½ inches long, 44½ inches high, 19 inches deep. Accommodates the following: 7-inch by 18-inch panel (either metal or bakelite); 7-inch by 21-inch panel (either metal or bakelite). Atwater-Kent Models 20 or 30; Freed-Eisemann Models 10, 30 or 40; Fada 192-A, 175-A, 460-A. Model 667—
Cabinet, No. H3748
—List **\$85.00**



MODEL 667

Model 651—Console Type—A radio console cabinet, built-in wood speaker. Utah loud speaker unit and battery case combined. Made of genuine mahogany plywood, finished in a rich high-light mahogany. (The top and doors are edge-banded). Accommodates radio set 21 inches long, 9 inches high, 10¼ inches deep, or less. Outside dimensions: 25½ inches long, 45¼ inches high, 14 inches deep.

Model 651. No. H3739—List. **\$50.00**

Model 679—Period Design. A striking example of the cabinet maker's art, with its deep velvety brown highlighted finish, and wealth of natural graining. It is the console without a peer, for the price asked. Period Design. It has selected genuine wood inlaid walnut ply, hand decorated. The top and doors are edge-banded, has a sliding pull-out mounting panel, accommodates radio set 30 inches long, 9 inches high, 11 inches deep or less. Outside dimensions: 33¾ inches long, 50¾ inches high, 16 inches deep.

Built-in wood speaker, Utah Unit Model No. 679. No. H3747—
List **\$135.00**

Model 649—High-Boy—This High-Boy is of unequalled value. It is a console cabinet with battery case and built-in wood speaker, Utah unit. Designed by Master Craftsmen and is of unusual beauty and appearance. The construction is such that its graceful lines and finish will look well in any surroundings. Made of walnut plywood, elegantly finished. Outside dimensions: 25½ inches long, 45¼ inches high, 14 inches deep. Model 649. High-Boy.
No. H3752—List **\$50.00**



MODEL 651



MODEL 679



MODEL 649

DEALERS:—Here is an assortment of extraordinarily beautiful cabinets. They can be equipped with standard sets or with built-up kits. Place a few models on display. Their brilliance of design and finish made them fast sellers. Here is one dealer's actual experience: He ordered one model for his home. When it arrived it was left a few minutes on the sales floor before being sent out to his home. A customer came in and bought it. One at a time three more were

bought and sold in the same manner. He then ordered six of that model and a quantity of other designs. These cabinets only need be displayed. Their fine appearance and finish do the rest. Buy the best and reap many sales that these unusual cabinets make for every dealer that displays them. Make cabinet sales—sell more sets by installing in cabinets. A very profitable and fast turn-over for the dealer.

THE SLOGAN FOR 1927—A UNITED CABINET FOR EVERY SET

American Tubes

The radio public is demanding Blue tubes this season. To meet the demand we have secured a wonderful line of Blue tubes that have become a tremendous success. Packed in the attractive American carton and backed by our binding guarantee. The American is the best tube that can be built. It's the genuine American quality and you know what that means.

Silent in Operation

The American reduces tube noises to a minimum and always gives uniformly high receiving hour service.

Any replacements will be made instantly direct from our plant without the usual Eastern Correspondence and delay.

American Tubes are made in the following styles: X201A, X199, X200A, and the new type X171 power tube.

New Power and Detector Tubes

The new American X171 power tube is the achievement of the world's foremost tube engineer. Constructed with the highest quality Platinum coated filament.



Read My Personal Experience with American Tubes

I am proud of American Tubes. I have tested them in my own receiving set and they have given me wonderful results. I have issued special instructions that only the tubes that pass our special 11 point test be issued to our customers. Thus you are assured of only the best and your customers will appreciate your good judgment. A tube built by experts, backed by us with our tremendous resources and with every tube goes our binding guarantee. I not only stand back of them with my written guarantee but I have in the bank on deposit \$5,000.00 which insures prompt replacement or immediate refund on any American tubes that prove defective.

The American Tubes are the pride of my heart and every cent of my resources will be spent if necessary to please buyers of my own brand of tubes.

Only by my volume production can I make such low prices—and we do have the lowest price on quality tubes in the country.

I know my customer-friends want quality and I am sure that every body will agree after they have given American Tubes a thorough test that they are the best on the market.

The American tubes are fundamentally right in principle. This together with our rigid test plan insures every customer of receiving a perfect tube.

Low price, guaranteed against any defects, backed by the American Auto & Radio Mfg. Co. and myself. Is there another brand of tube on the market that has all the features?

I promise you that Americans will be tremendous business builders for us both.

HARRY SCHWARTZBERG.



THE RESULTS OF FIVE YEARS WORK

- Type X201A—6-volt tube for detector or amplifier with new style base. Fil. v. 5, amp. 2.5, plate voltage 22½-90. H2833—List..... **\$2.00**
- Type X199—3-volt tube for dry cells, detector or amplifier. New style base. Fil. v. 3, amp. .06, plate voltage 22½-90. H2827—List..... **2.25**
- Type X200A—6-volt tube for detector use only. New style base. Fil. v. 5, amp. .25, plate voltage 22½-67. H2913—List..... **5.00**
- Type X171—6-volt tube for power amplifier. Fil. v. 5, amp. .50, plate voltage 45-180. H2914—List..... **6.00**

Rigidly Tested



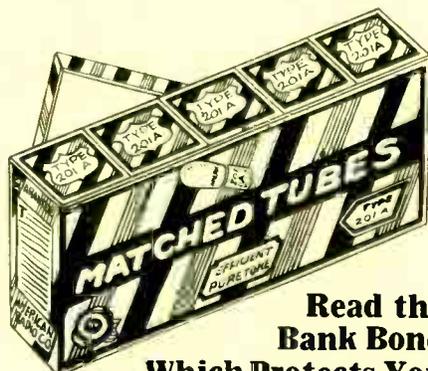
The X171 is not critical to "B" battery voltage and operates wonderfully on voltages from 45 to 180.

We are positive that there is more value and quality in our X200A than any other tube on the market. This tube is a super-sensitive detector and will increase the volume of any set. Absolutely not critical to "B" battery voltages. Our American X200A tubes is the marvel of the radio industry!

MATCHED UNIFORM TUBES

All radio users know the necessity of matching tubes. They know that sometimes the proper balancing and adjusting of the tubes in their set is a long and tedious process. If the tubes they buy are not matched originally, often they never get satisfactory results until they go out and buy other tubes that give the right combination. Now this worry and expense has been entirely eliminated. We do all this for the owner right here in our testing room. The matched tube carton, shown above, is the answer to this great Radio need. It includes tested and matched tubes that are guaranteed to give maximum results on any set and which are interchangeable in any socket with equally fine results. This tube matching service is a new American idea, and one that is meeting with great public approval.

More than usual care is taken in the testing of American tubes. Individually tested and carefully laboratory matched. Packed in cartons of 5 or 6 tubes as you wish.



Read the Bank Bond Which Protects You

- 5 American X201A guaranteed matched tubes packed in group carton. H2281—List..... **\$10.00**
- 6 American X201A tubes as above. H2282—List..... **12.00**
- 5 American X199 guaranteed matched tubes packed in group cartons. H2283—List..... **11.25**
- 6 American X199 tubes as above. H2284—List..... **13.50**

\$5,000.00
Bank Bond

This is to certify that the American Auto & Radio Mfg. Company has deposited \$5,000 in The Columbia National Bank in Kansas City, so that dealers handling American Tubes can be sure of obtaining prompt replacement or immediate refund on any American Tubes that prove defective.

AMERICAN AUTO & RADIO MFG. CO.
Harry Schwartzberg, Pres.

BUY AMERICAN TUBES—THEY ARE GUARANTEED

I-N-D-E-X

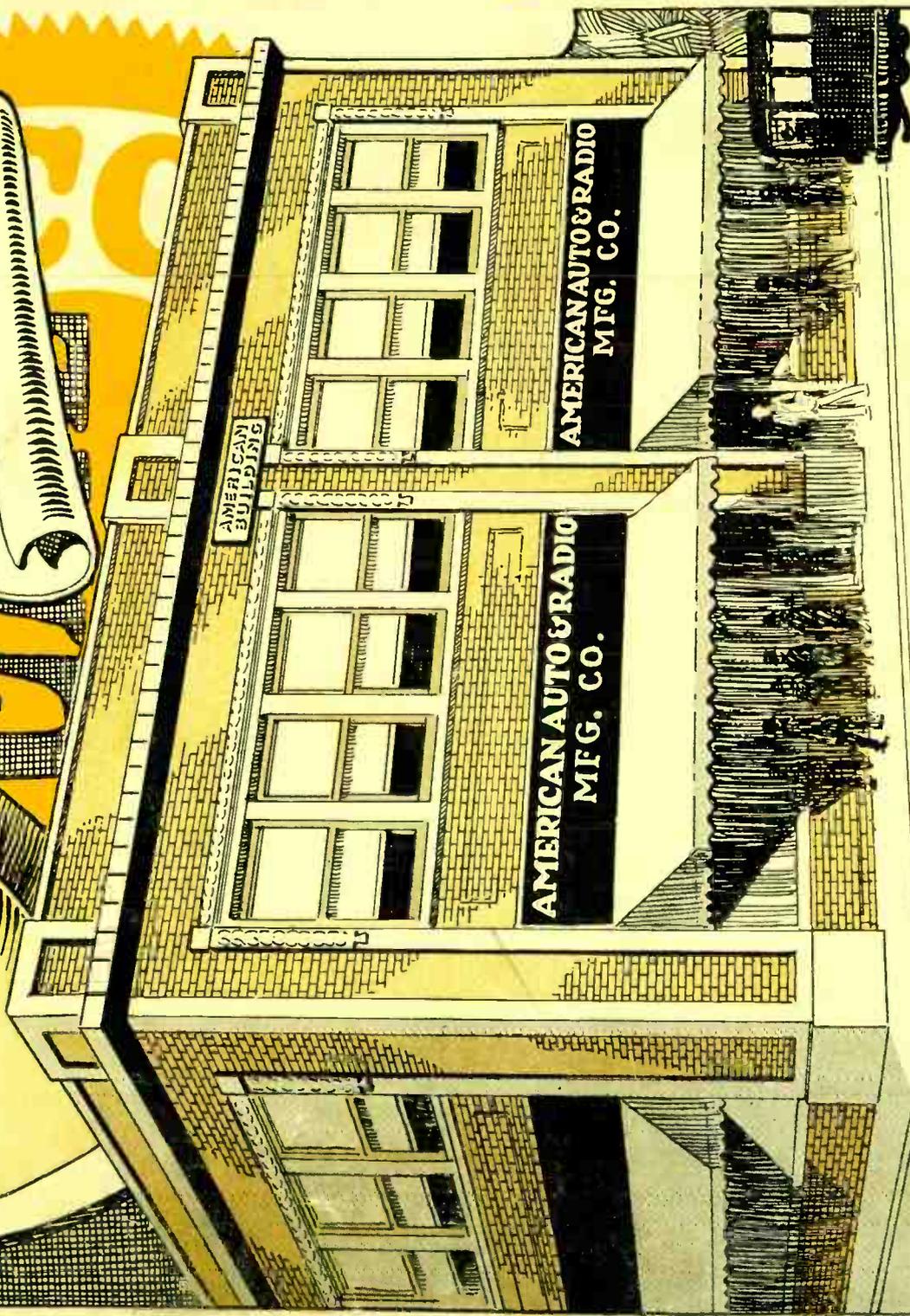
| | | |
|--|--|---|
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